



MARCH 1993



SKYWARN NET MAPS  
Page 31



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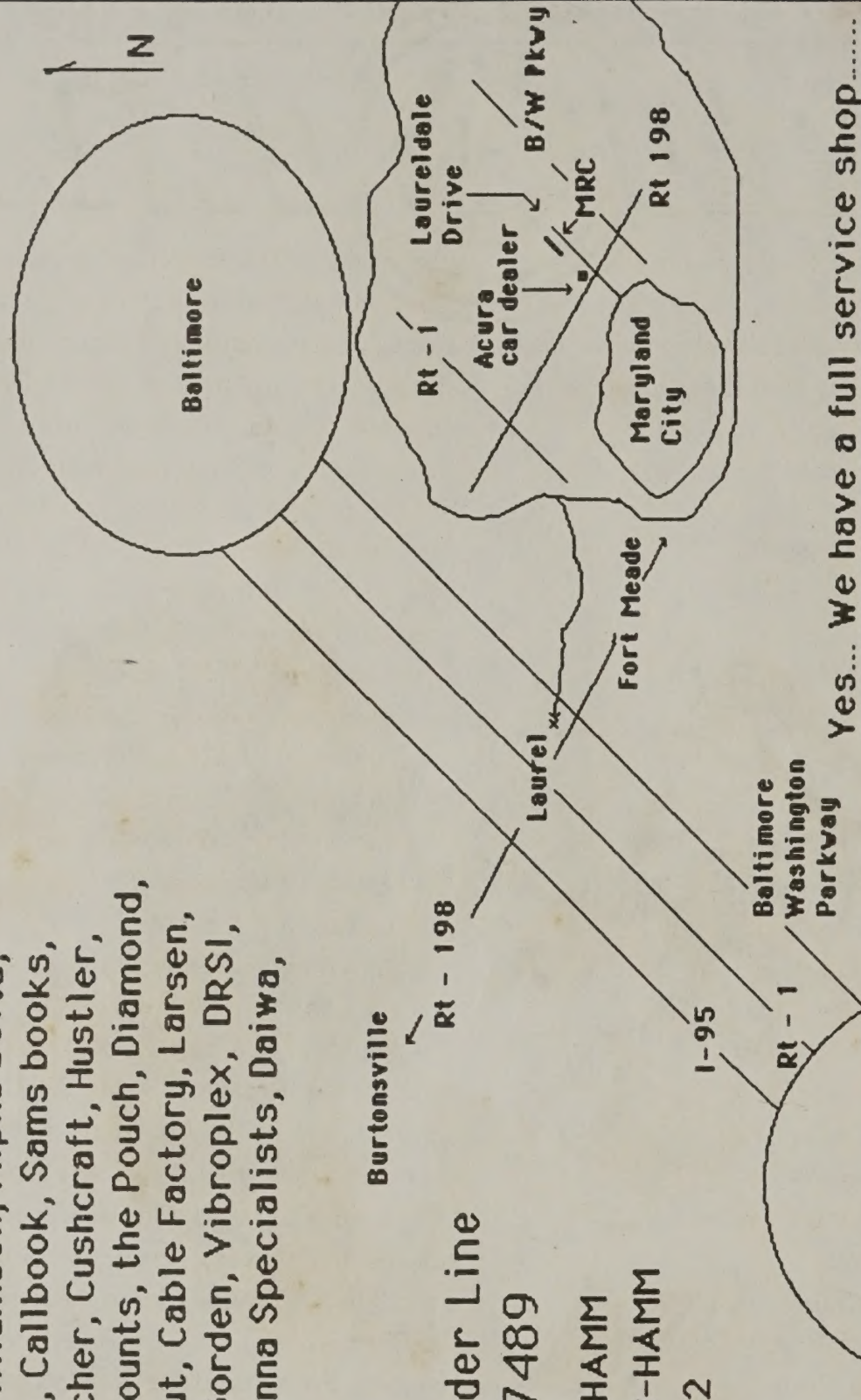
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|--|---|
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| Amateur Radio Research and Development Corp. | Montgomery Auxiliary Communications Service |
| AMSAT - Radio Amateur Satellite Corporation  | Mount Vernon Amateur Radio Club             |
| Anne Arundel Radio Club                      | National Capital DX Association             |
| Antietam Radio Association, Inc.             | Naval Research Laboratory Radio Club        |
| ARINC Amateur Radio Club                     | Northern Virginia FM Association            |
| Arlington Amateur Radio Club                 | Northern Virginia Radio Club                |
| Baltimore Amateur Radio Club                 | Ole Virginia Hams Amateur Radio Club        |
| Baltimore Radio Amateur Television Society   | Pentagon Amateur Radio Club                 |
| Capital City Amateur Radio Society           | Potomac Area VHF Society                    |
| Capitol Hill Amateur Radio Society           | Potomac Valley Radio Club                   |
| Carroll County Amateur Radio Club            | Prince George's Wireless Association, Inc.  |
| Central Maryland Amateur Radio Club          | Prince George's County ARES/RACES           |
| Chaverim of the Greater Washington Area      | Quarter Century Wireless Association, Inc.  |
| Columbia Amateur Radio Association           | Baltimore Chapter #20                       |
| D-MARC - Digital MidAtlantic Radio Council   | Del-Mar-VA Chapter #150                     |
| Department of State Amateur Radio Club       | Shenandoah Valley Chapter #137              |
| Fauquier Amateur Radio Club                  | Vic Clark Chapter #91                       |
| Frederick Amateur Radio Club                 | Washington Chapter #23                      |
| Frederick Amateur Repeater Group             | Rock Creek Amateur Radio Association        |
| Friendship Amateur Radio Club                | St. Mary's County Amateur Radio Association |
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| Green Mountain Repeater Association          | Southern Maryland Amateur Radio Club        |
| Herndon Repeater Group                       | Southern Patuxent Amateur Radio Club        |
| IBM Amateur Radio Club                       | Springfield Estates Elementary School ARC   |
| Johns Hopkins University APL ARC             | Stafford Amateur Radio Assn                 |
| Laurel Amateur Radio Club                    | Sterling Park Amateur Radio Club            |
| Leisure World Amateur Radio Club             | Summit Amateur Radio Association            |
| MADRAS                                       | Tri-County Amateur Radio Club               |
| Maryland Emergency Phone Net                 | T-MARC, Middle Atlantic Repeater Council    |
| Maryland FM Association                      | Vienna Wireless Society                     |
| Maryland Mobileers Amateur Radio Club        | Voice of America Amateur Radio Club         |
| Mercury Amateur Radio Assn., NE Area         | Washington Adventist Amateur Radio Assn.    |
| Metropolitan Communications Network          | Washington Area Young Ladies ARC            |
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# AUTO-CALL

## Official Journal of the Foundation for Amateur Radio

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## Coming Events

### 1993

Feb 28	Vienna Winterfest™, Vienna, VA	(Page 24)
Mar 14	York Springfest, York, PA (♦ New location this year)	(Page 54)
Mar 20-22	Virginia QSO Party	(Page 28)
Mar 21	Two Rivers ARC Hamfest, Monroeville, PA Penn-Del ARC, New Castle, PA	
Mar 27-28	Greater Baltimore Hamboree, Timonium, MD	(Page 29)
Apr 3	Chesapeake ARS, Virginia Beach, VA	
Apr 11	Easter Sunday	
Apr 23-25	Dayton Hamvention	
Apr 23	Southwest Chapter QCWA Annual Banquet, Dayton, OH	(Page 42)
May 1	Kent Island Hamfest, Grasonville, MD	(Page 46)
May 8	FAR/QCWA Annual Spring Banquet, Greenbelt, MD	
May 9	Mother's Day	
May 9*	Roanoke Valley Hamfest, Vinton (Roanoke), VA	
May 16	Greater Hagerstown Hamfest, Warminster ARC, Wrightstown, PA	
May 21-23	Atlantic Division Convention & Rochester Hamfest, Rochester, NY	
May 15	Armed Forces Day	
May 16	Wheeling, W. VA Hamfest (West Virginia's Largest Hamfest)	
May 21-23	ARRL Atlantic Div./NY State Convention, Rochester, NY	
May 30	Maryland FM Assn. Hamfest, Howard County Fairgrounds	
Jun 6	Ole Virginia Hams Hamfest, Manassas, VA Breezeshooters Hamfest, Butler, PA Tamaqua Transmitter Society, Tamaqua, PA	
Jun 20	Father's Day	
Jun 20*	Frederick Hamfest, Fredrick, MD	
Jun 26-27*	Field Day	
Jul 4	Independence Day	
Jul 3-4	ARRL West Virginia State Convention, Jackson's Mill (Weston), VA	
Jul 9-11	YLRL National Convention, Wichita, KS	
Jul 11*	Carroll County Hamfest, Westminster, MD	
Jul 17-18	Southeastern Division Convention, Atlanta, Georgia	
Jul 25	Brats Hamfest & Computer Fest, Timonium, MD	
Aug 1	Shennandoah Valley Hamfest, Berryville, VA	
Aug 14-15	ARRL National Convention, Huntsville, Alabama	
Aug 15	Del/Lehigh ARC, Easton PA (New location)	
Aug 28-29*	Roanoke Valley Hamfest, Roanoke, VA Southern Patuxent Hamfest, Upper Marlboro, MD	
Aug 29*	Hershey Park Hamfest, Hershey, PA	
Sep 4-5*	Shelby Hamfest, Shelby, NC	
Sep 6	Labor Day	
Sep 11	Radio Association of Erie, Erie, PA	
Sep 12	F.A.R. Fest® 93, Gaithersburg, MD Butler County ARA Hamfest, Butler, PA	(Page 56)

\* Dates not confirmed

*Thanks to Hugh Turnbull - W3ABC and Bob Milligan - KI4MB for providing much of the above information. Please send a copy of your hamfest flyers to Auto-Call and keep us advised of any changes. We are anxious to provide our readers with timely information and help to avoid possible conflicts when scheduling activities. We can use all the help we can get!*



## President's Corner

**Tony Young - WA3YLO**

President, Foundation For Amateur Radio

Here comes spring! Novice classes abound. The Anne Arundel Radio Club has its usual large group of aspiring individuals; some of whom will probably operate on Field Day. More Novice classes in Towson and Washington, DC. Upgrade classes in Alexandria and Laurel. Clubs are assigning the Field Day coordinators, and appeals are going out for help at spring running meet and benefit walk. The first area Hamfest is history, and this writer has built his own first "scratch" beam antenna (20 meters). The point is that the Amateur community is coming out of hibernation. How about you?

Don't let spring arrive without extracting all the ham fun you can have. We know you made and kept several new resolutions this year, and getting more active should have been one of them. There is something for everybody.

Many of the pages of any issue of Auto-Call contain inviting club activities. You could be an Elmer to one of the new students, or to a new Technician just waiting for someone to help with CW. It is a real pleasure to hear genuine offers to help between hams, and to see the fruits of such help.

You could be the start of someone's "on the air" activity by sponsoring a Novice station

at this year's club Field Day. Remember your first contact? With support at their side, the year's Novice/Tech grads may get their first opportunity to operate a station (theirs or yours) if you extend the kind hand that hams are known for.

I get frequent opportunities to visit clubs in the D.C. area, and listen to the enthusiasm of the "movers" within the active leadership and coordinators. For instance, the MADRAS club sponsored a "special event" station at the U.S. Senate to help celebrate the 1993 inauguration activities. Operating within the security nets and the congestion on Capitol Hill, it took serious planning to maximize air time. We congratulate MADRAS for their effort. The Mt. Vernon club has helped celebrate President's day with their own Special Event at historic Mount Vernon in February. We hope it went well. A 26-mile marathon in Anne Arundel county will involve over 50 hams. Another chance for Amateur Radio to shine.

Find out what your club is doing this spring and summer and be part of the fun activity and public service projects. C U there!

Tony - WA3YLO

### 1993 Annual Spring Banquet

Sponsored jointly by

The Foundation for Amateur Radio & the Quarter Century Wireless Assn.

Greenbelt Marriott Hotel

Saturday, May 8

This is an area-wide activity, open to ALL Amateurs  
Mark your calendar right now.



# FCC Highlights

by Jack Kelleher - W4ZC

## Status Report:

The following is taken from the W5YI Report for January 15, which summarizes where things stand in pertinent FCC actions.

**Privatizing Commercial Radio Operator Examinations.** (See separate item on this topic later in this column).

**Permissible and prohibited amateur communications** (PR Docket 92-136)

The administrative work on this proceeding is being handled by the FCC's Personal Radio Branch, Washington D.C.

This rulemaking has a long and interesting history. The FCC had been talking with the ARRL on the matter of more liberal amateur communications as far back as 1990. Amateurs have long wanted to take part more fully in such functions as the Iditarod Dog Sled Race in Alaska, the New York Marathon, the Rose Bowl Parade . . and many, many other events.

All of these events have a pecuniary angle and as such, communications participation - especially those involving logistics - by amateur radio operators is prohibited. And ham gathering "talk-ins" over amateur radio are questionable if there is an admission charge. Even routine assistance to local, state and federal governments (such as public safety organizations) is controversial since they have their own authorized frequencies.

At the ARRL National Convention in August 1991 new amateur communications parameters were first publicly suggested during remarks made by FCC Bureau Chief Ralph Haller. The FCC suggested three levels of communications: Priority (emergency), Primary (regular), and Secondary (non-amateur). Haller asked the ARRL for their recommendations on the matter. The League views came in the form of a lengthy 14-page letter which was submitted almost exactly a year ago. The FCC treated the letter as a petition for rulemaking.

The League agreed that the no-business communications rule should indeed be relaxed. They especially wanted a mechanism which would permit wider participation by amateurs in public service events. In June the

FCC issued a Notice of Proposed Rulemaking which substantially followed the League's informal proposal. But other requests, not asked for by the ARRL, which would permit amateurs to transact personal and logistical business on the ham bands, were also included in the NPRM. The comments period closed last fall, reply comments last month.

It is anticipated that the FCC will now issue a Report and Order sometime this spring adopting relaxed amateur communications guidelines. The big question is, how far will they go? It has the potential to be a "block-buster" of a decision!

**Folding Novice Testing into the VEC System**  
This one is due out late spring . . . in the April, May time frame, we (W5YI) are told. In the interest of efficiency, this proceeding seeks to consolidate the two existing ham radio operator license testing programs into one. All operator license examinations, except for the Novice Class, are administered in the VEC System. Questions for all written examinations - including the Novice Element 2 - are developed and revised by the VECs Question Pool Committee. VEC coordination provides a procedure for circulating needed examination information to the VE team. The VEC System is also perceived as a more credible testing program. A Report and Order adopting the NPRM is expected.

**Licensing of visiting foreign amateurs** (PR Docket 92-154 -- (see also item on International Licensing later in this column)

Comments are still being reviewed on this one and final Commission action is not anticipated until June or July. This rulemaking suggests a novel licensing scheme whereby all foreign licensed amateur radio operators temporarily visiting the U.S. would be able to operate their amateur radios for up to 60 days.

## VHF/UHF Rule changes

(PR Docket 92-289). This item seeks to create a small sub-band (222.0-222.15 MHz) for weak signal and experimental communications; extend Novice operation to the entire 222-225

(Continued)



## FCC Highlights - Continued

MHz band; and allow Novices to be control operators of repeaters at 222 and 1270 MHz. Depending on the comments, a Report and Order adopting the matter is anticipated.

### Other Proceedings

T. W. Colby has requested a Special Temporary Authority to operate HF packet;

William C. Wells, WA8HSU, has petitioned the FCC to reduce the number of amateur radio operator classes to three -- Novice, Technician, and General;

K. E. Coss requests authority for Advanced Class VEs to give more exams than is now permitted;

D. Gagnon is interested in getting a waiver of the AM power limits;

Bill Welch, W6DDB requests additional privileges for Novices at 30 meters. That petition has been accepted for comment and assigned RM-8093;

The FCC has received input from ARRL on semi-automatic control of HF packet; more next month.

The FCC has under consideration a request from ARRL to issue club and military amateur call signs. We (W5YI) understand there are other non-profit organizations that also wish to issue amateur call signs;

### Commercial Radio Testing to Use Amateur Radio Model.

The FCC has transferred the responsibility for the development and administration of Commercial Radio Operator license testing to the private sector. The program will be handled in more or less the same way as the successful examination program in the Amateur Service, pursuant to PL97-259 of 1982.

In September 1986 the FCC released an inquiry seeking comments on whether the public interest would be served by allowing a private organization to draft and administer all FCC Commercial Radio Operator examinations.

The FCC had been charging a \$35 fee for processing commercial radio operator license applications for more than two years. The establishment of the fee, however, has not permitted the Commission to increase the

frequency of testing or number of locations for commercial examinations since all fees collected are deposited into the General Fund of the U.S. Treasury and do not augment the agency's appropriations in any way.

As a result of the 1986 inquiry, the FCC asked for (and received on September 28, 1990) an amendment to the Communications Act authorizing it to delegate the examination of Commercial Radio Operators to non-Government organizations. The wording of the amendment is essentially the same as the language in PL97-259 except that it refers to Commercial rather than Amateur Radio Operator licenses.

Last August, the FCC released a Notice of Proposed Rule Making which contemplated privatizing the administration of examinations for Commercial Radio Operator licenses, in which the FCC said "...it continues to face resource constraints that prevent it from drafting and revising commercial radio operator examinations often enough to ensure examination integrity and from administering the examinations more than twice a year at its various field offices." The public comments closed on November 2, 1992.

Currently, the FCC has seven types of Commercial Radio Operator certificates, licenses, permits and endorsements. A new class of license, the Global Maritime Distress and Safety System (GMDSS) Radio Operator's License. GMDSS is an automated ship-to-shore distress alerting system using satellite and advanced terrestrial communications systems.

GMDSS radio operators will be needed to operate the modern equipment which is just now in the process of being phased in. This system will make the need for manual telegraphy unnecessary after 1999. The GMDSS license and most other licenses are valid for a five-year terms although the General Radiotelephone operator license and Restricted Radiotelephone Operator permit are issued for the lifetime of the holder.

On January 14, 1993 the FCC made their final ruling on the matter and approved the handling of all future Commercial Radio Operator license examinations by the private sector. (Thanks W5YI Report, 2/1/93).



## FCC Highlights - Continued

**International Licensing.** Steve Hutchins, KN6G and DJHB has sent additional data to the FCC on his Petition for Rule Making (RM-7680) which would simplify the reciprocal Amateur Radio operating procedures.

The European Community has formed an alliance whereby each of 31 nations (basically all of Europe, Scandinavia and the United Kingdom) recognizes the Amateur License of other so-called CEPT (Conference of European Posts and Telecommunications) countries. This allows visiting foreign amateurs to operate in other CEPT countries without obtaining an individual temporary license.

Hutchins urges the FCC to include language in Part 97.5(d) which will not only recognize the CEPT Radio Amateur License as a valid license to temporarily operate in the United States, but also to recognize the Amateur Radio licenses from all countries which have signed a reciprocal agreement with the U.S.

There are two CEPT license classes. Class 1 permits utilization of all bands; Class 2 permits operation on all frequency bands above 30 MHz. The call sign used is the operators home call sign preceded by the CEPT (actually the ITU) call sign prefix. A "Table of Equivalences" relates national license classes to the CEPT Class 1 and 2.

Countries which are not CEPT members may apply for participation in the CEPT radio amateur licensing system by applying to the CEPT European Radiocommunications Committee (ERC) in Copenhagen. (W5YI 2/1/93)

### **Cable TV Industry to Fight TVI With Hardware Solutions.**

We know that the FCC is reducing its individualized investigations of interference complaints and will focus on manufacturers' responsibilities to build products that can function properly in today's busy RF environment (See "No more TVI - for them", this column, April 1992, and "More on RFI and TVI", this column, Auto-Call June 1992).

With this as background, the leading article in the W5YI Report for January 15 is that cable TV companies are now pursuing a substantial effort to study causes of TVI and recommend hardware solutions.

They are using an 'opening' created by the passage of the new cable TV legislation, which requires problems of cable, TV and VCR compatibility to be cleared up. The FCC has the apparent responsibility to see that this happens.

According to Cable Television Laboratories (CableLabs), a central research house for the cable industry, direct pickup (DPU) is one of the "most damaging" problems between the cable TV system and the TV or VCR connected to it in the home. "DPU occurs for several reasons", CableLabs said in a press release. "One cause is when a tuner's shielding is inadequate to repel unwanted signals from entering a television set or VCR. These signals can be coming from a broadcast source into a set that is getting its television signal from cable service. These signals can also arise from pagers, business radios and other similar devices. This creates interference, or ghosts, in the picture." In some cases, the problems do not occur when the same TV is used without cable. "As a result, consumers frequently and intuitively - but not correctly - blame the cable service as the source of the problem." CableLabs president Richard Green said.

CableLabs' first step was to contract with Stern Telecommunications to do computer modeling and evaluation of the electromagnetic environment in which TV sets reside, so we could get a handle on what percentage of TVs might reside in areas that have high potential for interference."

Claude Baggett, the lab's director of consumer electronic systems, said "We now must learn how susceptible TVs and VCRs are to the interfering signals at field strengths as defined in the Stern study. The first step in that process is to define, in as absolute a manner as possible, all of the test facilities, procedures and methodologies required to test consumer hardware for its susceptibility to DPU types of interference." The laboratory is now seeking proposals from test labs and university researchers to contract for the hardware study.

xxx



## THE NEW GENERATION ROTATORS

### THEY'RE NOT YOUR FATHER'S HAM "M"

Rotator Comparison Chart

	The New Generation									Old Generation	
Model Specs	Create RCS	Create RCSA	Create RCSB	Emoto 105TSX	Emoto 747SRX	Emoto 1105MSX	Emoto 1200FOT	Emoto 1300MSAX	Emoto 1800FSX	Telex HamIV	Telex TZX
Rotate Torque Ft/Lb	43	116	160	37	50	57	143	215	287	67	83
GD <sup>2</sup> KgM <sup>2</sup>	N/A	N/A	N/A	100	400	700	1000	1800	3000	N/A	N/A
Ant. Inertia	506	1085	1450	215	502	717	1290	1792	2150	417	750
Wind Load in Tower (lb)	10	25	25	11	22	27	27	33	36	15	20
Mast mount	4	5	7	5	9	12	12	15	16	7.5	10
Rotating speed 360°	60-150 sec variable	60-150 sec variable	60-150 sec variable	55	35	55	40	77	80	60	60
Rev. Delay	None	2 sec	3 sec							None	None
Preset	Opt 3	Opt 3	yes	no	no	Opt	yes	yes	yes	no	no
Computer	no	no	no	no	yes	yes	yes	yes	yes	no	no
Power 120V 60Hz	80VA	140VA	200VA	70VA	70VA	70VA	90VA	120VA	150VA	26V AC	26V AC
Mast Dia	2-2.5 in	2-2.5 in	2-2.5 in	2-2.4 in	1.6-2.4 in	1.6-2.4 in	1.6-2.4 in	2.4-3.1 in	3.5-5.5 in	2 in	2 in
Control wire	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	8 cond	8 cond
Vertical max. load #	880	1540	1540	660	1100	880	1760	1760	2200	400	800
Motor wire	13	17	20	7.5	9	11	11	13	39.5	24	28
Drive type	worm drive	worm drive	worm drive	disk	friction	friction	friction	friction	friction	wedge	wedge
Self center	yes	yes	yes	Adj	Adj	Adj	Adj	Adj	Adj	no	no
Mast clamp	yes	yes	yes								
Seismic noise	3-6	3-6	3-6	6	1-6	6	2-6	6	6	4-7	4-7
Price (US)	\$269.00	\$449.95	\$799.00	\$209.95	\$399.00	\$589.00	\$679.00	\$1099.00	\$3272.00	\$369.95	\$439.95
With Preset	\$379.00	\$528.95				\$663.00					

Notes:

\* Turns Tribander 470° in 35 seconds

4 TZX and HamIV have same motor and gear train parts

\* 120V normal 220V special order

2 Variable speed 40 sec max

5 EEB prices as of 5/91 subject to change

8 Wind Load in Sec. Feet

3 Variable speed w/SCR constant rotational torque at any speed

6 120/220 taped transformer

### THE NEW GENERATION

An entire generation of amateurs have grown up knowing only one rotator manufacturer. Those old favorites are still popular. But, now a new generation of rotators are out to set high standards with innovative features such as: large machined steel gears, cast and machined aluminum cases, solid state controllers for smooth start/stop, preset, computer control and circular position indicators.

The bottom line is... strong, long term reliability, ease of operation and cost effectiveness. When you erect an antenna system the last thing you need is rotor problems!

### CREATIVE DESIGN ROTATORS

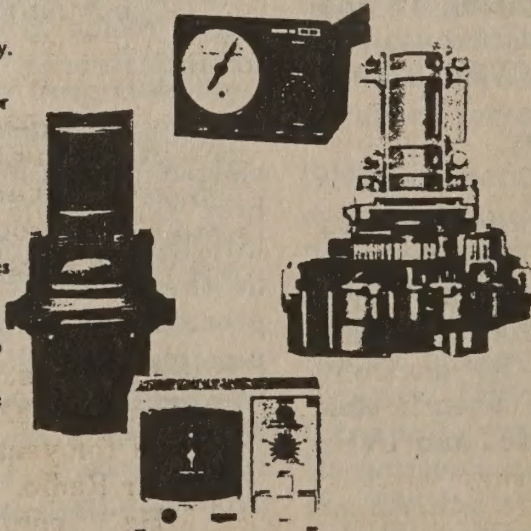
CREATE is serious about long term reliability. The CREATE RCS series rotators were designed with the serious DX'er in mind. Three models for medium, large and ultra large antenna arrays are available.

### ROTOR FEATURES OF RCS SERIES

\* Large strong reduction gear system provides long term reliability during years of rugged operation. \* Worm drive gearing provides powerful braking force and low backlash to keep your antenna in position during severe weather conditions. \* Cast and machined aluminum case provide the strength required for long lasting service. \* Mast clamp guides for ease of mast installation.

### CONTROLLER FEATURES OF RCS SERIES

\* Speed control using silicon control rectifiers allows slow speed without reduction in rotation torque. Rotating spec is constant 60 to 200 seconds per 360 degrees. \* Reverse delay control (RDC). Delays reverse command to rotor until antenna is at rest. Prevents damage to rotor antenna and tower system. \* Circular dial indicator, for quick accurate reading of antenna direction. Great circle overlay available for USA (west-cent-east). \* Preset (on 3 models) a must for quick setting of antenna direction. Just turn the knob to the new heading, the rest is automatic. Won't waste your time holding down the brake lever and wait.



### EMOTO ROTATORS

More than 60% of all Japan amateurs use EMOTO rotators. Many unique innovations and international patents have made EMOTO number one.

EMOTO has a fool proof method to calculate which of their rotators will satisfy your needs. This GD<sup>2</sup> formula considers your antenna (s) weight, boom and longest element length. The EMOTO sheet is in metric so one must convert weight 2.2lbs= 1kg and length in meters 3.3ft=1 meter. Calculate your GD<sup>2</sup> then compare EMOTO GD<sup>2</sup> spec above.

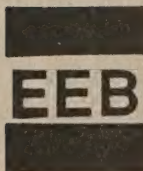
$$GD^2 = W \times \frac{L^2 + B^2}{12}$$

Where: W: weight of antenna (kg)  
L: length of longest element (m)  
B: length of boom(m)

#### GD<sup>2</sup> EXAMPLES: Kgm<sup>2</sup>

TH7DX (437), TH3JR (63), 205BA (675), DISC7-3 (1300), A3S (61), A4S (173), KLM KT34XA (378), 3 ELE TRIBAND (150), 6 ELE TRIBAND (400), 20M 5 ELE (750), 15M 6 ELE (650), 40M 2 ELE SHORT BOOM (240), 40M 2 ELE FULL BOOM (800), 80M 2 ELE (1500), STACK ARRAYS 10M 5 ELE (60), 15M 5 ELE (200), 20M 5 ELE (750), 60+200+750=1010

EMOTO also has a robust AZ-EL rotator that has computer I/O ports. For those working satellites or EME moon bounce the EV700D5X should do the job, as rotating torque is more than double the YAESU G5400B AZ-EL.



Electronic Equipment Bank 323 Mill Street, N.E. Vienna, Va. 22180  
Phone (703) 938-3350 Orders 800-368-3270  
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# American Radio Relay League Report

By John Swafford -- W4HU

*This ARRL Report provides a brief summary of information published in the ARRL LETTER and other reports. The LETTER provides timely news of interest to active Radio Amateurs. Any League member may subscribe to the ARRL LETTER.*

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## **Board Backs Continued D.C. Initiative, Status of CW; Shelves Name Change Idea.**

At its annual meeting January 15 and 16 in Jacksonville, Florida, the ARRL Board of Directors tackled several important items, including recommendations for rules regarding HF autoforwarding of digital data, suggestions that the name of the ARRL be changed, and directing initiatives in Washington to make national legislators more aware of Amateur Radio.

All directors, vice directors and officers were present, except Treasurer Jim McCobb, K1LLU, who was stranded in Boston by a snowstorm. The group welcomed two new vice directors, Dennis Bodson-W4PWF for the Roanoke Division, and Art Goddard-W6XD for the Southwestern Division.

Rather than pursue the Amateur Radio Spectrum Protection Act at this time, the League's Washington group was "authorized to seek formal recognition by the 103rd Congress of the role played by the Amateur Radio Service as a national resource in preparation for and relief from disasters, and for technical progress in electronics."

In the matter of a possible name change for the organization, the Board simply abandons further consideration of the idea.

The Board passed a resolution for continued support for Morse code proficiency for Amateurs operating below 30 MHz, as presently required by international law.

Citing the code's longevity as a license requirement and its ability to overcome language barriers, the Board not only went on record as supporting the existing international regulation regarding CW but instructed "all ARRL representatives to continue to insist before all national and international bodies that there be no modification of the present Morse code proficiency requirement for operation below 30 MHz."

## **HF Autoforwarding.**

The Board instructed the League's general counsel to file a petition for rule making with the FCC seeking rules changes to permit Amateur stations to operate under automatic control while using data emissions in certain segments of the HF bands.

In taking this action, the Board considered recommendations of the ARRL Digital Committee (see December QST, page 90). The Committee's recommendations were adopted with the following changes:

1. Eliminate the proposed 160 meter subband;
2. Narrow the proposed 40 and 15 meter subbands to reduce the impact on Novice and Technician licensees;
3. Delete provisions for so-called 'semi-automatic operation' which, under the committee's recommendations, would have been permitted anywhere that digital operation was authorized.

The Board expressed its appreciation for the work of the Digital Committee and the HF packet community on this subject. It also requested that the Digital Committee continue to study ways in which additional digital communications, such as the semi-automatic concept recommended by the committee, can be accommodated in the HF bands while adequately protecting Amateurs using other modes and pursuing other operating interests.

## **Other actions.**

Bill Tynan-W3XO and Jerry Hall-K1TD were honored for years of service to the League and Amateur Radio. Bill wrote QSTs "World Above 50 MHz" column for 18 years, retiring in November 1992. Associate Technical Editor Jerry Hall also retired in November after 25 years as a Headquarters staff member. Jerry was well known as editor of four editions of the ARRL Antenna Book and as author of some 48 QST technical articles.



## ARRL Report - Continued

Elected to the League's Executive Committee for one-year terms were Directors Mendelshon, Harrison, Quiat and Mark.

President Wilson announced appointments for 1993 of the following committee chairmen: Ad Hoc Committee on Spectrum Management, Marshall Quiat - AG0X; Ad Hoc Committee on Amateur Auxiliary, Hugh Turnbull - W3ABC; Ad Hoc Committee on National Conventions, John Kanode - N4MM; SAREX Working Group, Roy Neal - K6DUE; RFITaskGroup, Hugh Turnbull - W3ABC; Bioeffects Committee, Dr. Ivan Shulman - WC2S; Public Relations Committee, Rich Moseson - NW2L; Long Range Planning Committee, Rod Stafford - KB6ZV; Future Systems Committee, Paul Rinaldo - W4RI; Industry Advisory Council, Bill Burden - WB1BRE; Contest Advisory Committee, Walt Stinson - W0CP; DX Advisory Committee, Robert Beatty - W4VQ; Public Service Advisory Committee, Joe Knight - W5PDY; VHF Repeater Advisory Committee, Bob Bennett - W3WCQ.

An ad hoc committee will be appointed to analyze current computer usage and requirements at Headquarters and will report its finds to the Board in July. Tom Frenaye - K1KI was appointed to chair this committee.

Executive Vice President David Sumner, K1ZZ, noted that strong QST advertising revenues have recently permitted larger, more colorful issues of the journal, including the largest issue ever, November, with 256 pages, and the debut in February of a special section for new hams. In the area of membership services, mechanisms now are in place to eliminate the DXCC backlog in 1993 and the enhanced W1AW bulletin program originated 324 bulletins in 1992, more than twice previous years' totals.

The ARRL VEC was instructed to develop a plan for ensuring adequate volunteer examination opportunities in Alaska. This plan is to be referred to the Volunteer Resources Committee.

The National Convention Committee will continue plans for the first League-conducted national conventions, scheduled for 1995. So far the Committee has endorsed using outside contractors to manage the conventions, using staff personnel for conducting educational programs; and rotating the sites of ARRL

national conventions between three or four cities. The 1993 National will be held in Huntsville, Alabama; the 1994 in Arlington, Texas.

In the area of new ham recruitment and training, Dave noted that the number of Amateurs aged 7-17 has increased 31% in just one year, to 21,000. In Field Services, a major restructuring of the Amateur auxiliary is underway and there is encouraging evidence of stepped-up enforcement by FCC.

The ARRL Foundation reported that its funds have increased by more than \$51,000. 10 percent over the previous year. The Foundation celebrates its 20th anniversary in 1993. Gene Hasings - W1VRK, John Kanode - N4MM, and Paul Grauer - W0FIR were elected as Directors of the ARRL Foundation.

And finally, mindful of the national economy, the Board approved Division budget allocations at, or in most cases below, 1992 levels.

### Briefs.

- o The ARRL Educational Activities Department now has an 800 number for prospective new Amateurs: 800-32NewHam (800-326-3942). Staff members will answer calls and questions from 8 a.m. to 5 p.m. EST Monday-Friday; an answering machine will be on the line at other times. The number is exclusively for the use of prospective Amateurs.

- o 220 Notes, a periodical for aficionados of the 222-MHz band, is looking for a new management. Editor/publisher Art Reis - K9XI and Walt Altus - AA9AW, needing a breather, have put out the four-times-per-year news sheet for 11 years; "That's four times longer than the average lifespan for Amateur Radio newsletters like ours," Reis, 44, says.

"Ideally," Reis says, "we would like to see 220 Notes be carried on by someone (or several someones) who is active on the 222 MHz band, who will have the time to devote to this enterprise, and who has the Amateur Radio savvy to produce or improve the quality of product our readership has come to expect. We can be there for a little time after a transfer to help with the technical productions questions, and I personally might be able to contribute an occasional article or two to help fill the pages."



## ARRL Report - Continued

If you're interested, contact AA9AW at W6539 Birch St., Onalaska, WI 54650.

o The Tucson Amateur Packet Radio group will hold its annual meeting March 6 and 7 in Tucson. ARRL Senior Engineer Jon Bloom-KE3Z, will present a workshop on digital signal processing, a short course bridging the gap between complex (modulated) signals and computer programming.

The meeting will be held at the Tucson Airport Best Western motel. For more information, contact the TAPR office, PO Box 12925, Tucson AZ 85732; 602-749-9479 (10-3, Tue-Fri) or fax to 602-749-5636.

o A story about SAREX in the December 24, 1992 issue of The ARRL Letter had the scheduled launch date for STS-55 wrong. It's February 25, 1993.

o Australia has completed its first year of using volunteer examiners to administer Amateur exams. More than 400 examiners have been accredited and more than 3,000 exams have been given

to some 2,000 candidates. Sixty-eight percent of the examiners were found to be members of the Wireless Institute of Australia (the national organization); the average pass rate was 51.4 percent.

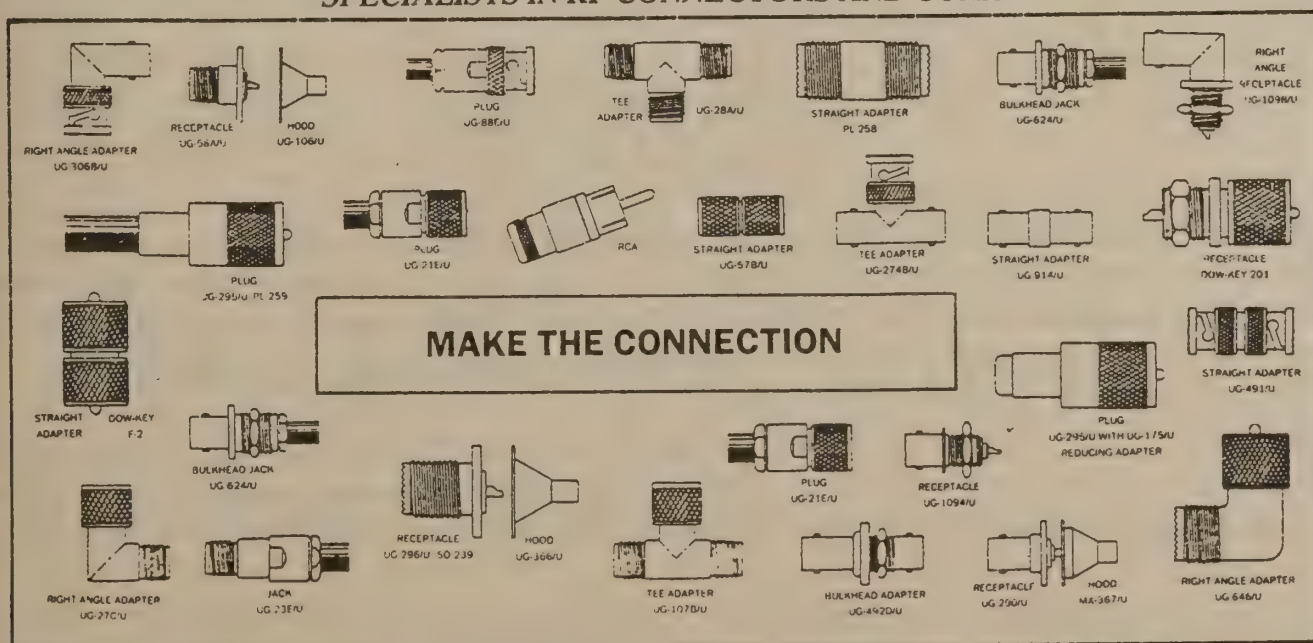
o ARRL will again this year have a booth at the National Association of Broadcasters convention (Las Vegas, April 19-22). Last year more than 600 "radio and TV hams" stopped by to say hello, according to ARRL Public Information Officer Steve Mansfield - N1MZA.

o Best-selling author and television documentary star Cliff Stoll - K7TA, will be the featured speaker at the 1993 Dayton Ham-Venture banquet. Stoll, who wrote the Cuckoo's Egg in 1989 and later portrayed himself in an episode of Public Television's "Nova," also was the subject of a QST profile in 1990.

Stoll has a PhD in planetary science. In his spare time he "pieces quilts, works 40 meter CW, and squeezes lumps of bituminous coal into diamonds" (according to his Internet announcement).

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# ***AMATEUR RADIO NEWS RELEASE***

## **For Immediate Release**

THE FOUNDATION FOR AMATEUR RADIO, INC., a non-profit organization with headquarters in Washington, D.C., plans to administer forty-seven (47) scholarships for the academic year 1993 - 1994 to assist licensed Radio Amateurs. The Foundation, composed of fifty local area Amateur Radio Clubs, fully funds five of these scholarships with the income from grants and its annual Hamfest. The remaining forty-two (42) are administered by the Foundation without cost to the various donors.

Licensed Radio Amateurs may compete for these awards if they plan to pursue a full-time course of studies beyond high school and are enrolled in or have been accepted for enrollment at an accredited university, college or technical school. The awards range from \$500 to \$2000 with preference given in some cases to residents of specified geographical areas or the pursuit of certain study programs. Clubs are encouraged to announce these opportunities at their meetings, on their nets, during training classes, and in their club newsletters.

Additional information and an application form can be requested by letter or QSL card, postmarked prior to April 30, 1993 from:

FAR Scholarships  
6903 Rhode Island Avenue  
College Park, MD 20740

The Foundation for Amateur Radio, incorporated in the District of Columbia, is an exempt organization under Section 501(c)(3) of the Internal Revenue Code of 1954. It is devoted exclusively to promoting the interests of Amateur Radio and those scientific, literary and educational pursuits that advance the purpose of the Amateur Radio Service.





# Public Service Report

Hank Black - N3ESR

(301) 340-8595

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*Material for the PUBLIC SERVICE REPORT can be left to N3ESR on the WA3ZNW packet bulletin board on 145.090 MHz, called by telephone, or mailed electronically by modem on arrangements, or mailed to Public Service Report, 105 North Van Buren St., Rockville, MD 20850-1860.*

*Deadline for receipt of material is the third of the month.*

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## MOCK AIRPORT DISASTER TEACHES VALUABLE LESSONS

On November 7, 1992 many organizations participated in an air disaster drill at the Washington County Regional Airport, one of which was the Washington County Amateur Radio Emergency Service (ARES)/Radio Amateur Civil Emergency Service (RACES) group.

Nearly 20 local-area ham operators were involved. Several of them acted as backup communicators for key personnel; such as Carolyn Rider, the airport Operations and Terminal Manager; and for Kathleen Riley, County Citizens' Services Chief.

There were several occasions when other radio channels and cellular telephone circuits were overloaded or failed to function. The ham operators were able to provide much-needed contact between heavily involved personnel.

Other amateur operators linked the ambulance-loading area to the emergency rooms at Washington County and Waynesboro hospitals, to give departure times and injury priority information about the victims in the vehicles.

According to Charles Anderson - NF3X, the Washington County ARES Emergency Coordinator and RACES Radio Officer, Amateur operators provided vital emergency communications following the Sioux City, Iowa crash of United Flight 232 and that of the AMTRAK train derailment near Baltimore, Maryland in 1987.

"This drill," he stated, "showed conclusively that the emergency communications capabilities of the ARES will be crucial importance in any type of disaster."

Participating in the drill were: A3BOT, W2CXB, KC3BW, WA3EOP, W3FZT, N3HTN, N3ISU, KD3JK, KA3LBF, N3LFY, N3LWI, N3LWJ, N3MVL, NEMVR, N3MZY, KD2TY, K3UMV, WA3V DX, NF3X, KD3XO, AND W3YGC.

-From EC/RO New Release and Report to Emergency Management  
by Charles Anderson - NF3X, EC/RO Washington County, Maryland.

## MARC MOBILIZED FOR SEARCH AND RESCUE OPERATION

The Mountain Amateur Radio Club (MARC) was called late Saturday, January 2, 1993 to assist with a search for a missing person near Piney Dam west of Frostburg, Maryland. Sunday morning at 6:45 a.m. ham operators W3DFW, KB8JTO, and N3IVK reported to the Eastern Garrett County Fire Hall.

AM-COM 1 (Amateur Communications) from Allegany County Emergency Management & Civil Defense, a communications unit built and maintained by MARC, was used for the command post. Maryland State Police from Garrett County and Department of Natural Resources (DNR) personnel provided instructions for the search which involved more than 150 people.

(Continued)



## Public Service Report - Continued

Matt N3IVK operated the Fire Services radio and Shannon - KB8JTO manned the 2-meter radio and operated the phone patch. Department of Natural Resources personnel manned the DNR radio. The heaviest traffic was from the Fire Services radio keeping N3IVK very busy.

There were eight teams on the search and each team consisted of ten people. The teams were assigned areas by DNR and each team and area was marked by color codes and tape to prevent double coverage.

A day or two earlier, MARC just put a new repeater with auto-patch on the air. The phone patch was used many times and to good advantage. (In 1985, the club put a new repeater on the air and a week later the flood waters came down!)

Unfortunately, on January 5th, the elderly missing person was found, he did not survive.

Thanks to those who helped in any way especially in such a big operation. The AM-COM 1 provided its worth once again. Thanks to the Meyesdale and the Midland Fire Companies for their electric power. The electric heaters felt pretty good. Thanks to those who kept the frequency clear during the search and rescue mission. Also, thanks to those who lined up to provide relief.

-Submitted by Gay Rembold - W3DFW, EC/RO Allegany County.

### AREA HAMS ASSIST RED CROSS IN EVACUATIONS AT D.C. MUNITIONS SITE

On Tuesday, January 5th, 1993, workers at a northwest D.C. residential construction site were putting in a sewer line when they dug up a number of suspicious looking canisters. Officials from the military were called in, and it was soon determined that a long forgotten military munitions dump, dating back to World War I had been unearthed. The site was ordered evacuated within a 1000 yard radius, and the national capital chapter of the Red Cross was notified to begin preparing for an unknown number of displaced residents.

The next day, the Disaster Services unit at the Red Cross made a call to Northern Virginia District 2 Emergency Coordinator Bob Lewis to request communication support from the Chapter House to the incident site and to the shelter which was initially opened at the D.C. Convention Center. By 1 p.m. that afternoon, all three sites that the Red Cross had requested communicators at were manned and functioning.

For the next eight days, radio operators manned the Chapter House, the evacuation shelter, and the incident site handling traffic that ranged from requests for food and supplies, to transportation for elderly residents that lived in the affected area. Hams were on duty from 8 a.m. until approximately 9 p.m.

By the afternoon of January 15th, telephones had been installed at the new shelter site, and the Federal Emergency Management Agency had provided cellular service at the incident site for Red Cross use. It was at this point that a decision was made by the Red Cross Disaster Services director to place the Amateur Radio operators on stand-by.

This event took place within the boundaries of the District of Columbia, but could not have been handled with the efficiency and professionalism that took place with out the cooperation of hams from Maryland, the District of Columbia, and Northern Virginia. Amateurs from all three jurisdictions took part and contributed. A special thanks to the Maryland Apple Dumpling Radio Amateur Society (MADRAS) for the use of their 2-meter and 440 repeaters. Both of the machines gave excellent coverage during the event.

Thanks to the following people who assisted with communications: N3IWM, KK4GB, N4SCK, WB4WZZ, N4URL, KC4WES, N4BV, N3HQX, KA3OVK, N4HCP, KC4OCG, KD4DGQ, KM4FJ, N4ZGI, KA4YMA, KA4REI, N4BYF, N3JFW, N3LDY, KC4EFJ.



## Public Service Report - Continued

### OPERATIONS MANUAL FOR SKYWARN IN USE

January 1993 marked another incremental milestone in the organization of the National Capitol Area SKYWARN Program. A comprehensive SKYWARN Net Control Operations Manual was completed and used at two training classes for Net Control operators on January 23, 1993. The classes were well attended. The primary purpose of the Operations Manual is to provide a single source to which all Net Control operators (at NWS, remote, and subnet) can refer in order to have uniform and consistent procedures in use throughout the system. The Operations Manual is a living document which will be improved and updated through use.

The technological year got started off with a bang when we found that the top antenna at the NWS had failed. Much thanks goes to the frostbite repair crew of Ed - KC4EFJ, Bernie - KC4YMP, George - KD4DGQ, and Dan - KC4OCG who replaced the antenna to insure that the entire SKYWARN Amateur Radio station would be in full operation for the winter storm season.

A note of congratulations goes to Barbara McNaught who was promoted within the NWS to the position of Warning Coordination Meteorologist. Barbara will continue to work closely with the National Capitol Area SKYWARN Program from the Washington Forecast Office in Sterling, Virginia. We wish Barbara much luck in the new position which was indeed earned through hard work and dedication. Congratulations, Barbara!

The updated SKYWARN Amateur Radio System Map is included in the centerfold of this edition of *Auto-Call*. Thanks again goes to Ross - WA2WDT, who prepared the graphics. On the back of the map are lists of the summer and winter severe weather criteria and a brief description of the SKYWARN Amateur Radio System. Please pull this centerfold out and put it where you can find it during severe storms to assist in participating in the SKYWARN Program. The new SKYWARN Amateur Radio logo was created by Barbara McNaught.

Dan, KC4OCG.

An additional note on the December snowstorm. The forecasters noticed an unexpected line on the Doppler radar as the storm crossed the area. When the position and movement of this line was correlated with the real time SKYWARN Amateur Radio Spotter reports, it was realized that this line was indicating the rain/snow demarcation line. Knowledge of the position of this line is extremely important in making forecasts of the storm's impact. Thus the SKYWARN system has helped the NWS learn new features of its modern technology for everyone's benefit. A job well done to all who participated in the net.

The week of March 21-27, 1993 is Severe Weather Awareness Week in Maryland, the District of Columbia and Virginia. This is a good time to review your safety plans for home and office. Watch for articles and information on safety.

### SKYWARN TRAINING CLASSES

Sat., March 20, 1993                      SKYWARN Basic I, NWS Sterling, VA 1-4 p.m.

Wed., March 31, 1993                      SKYWARN Basic II, NWS Sterling, VA 7-9:30 p.m.

Please pre-register by calling NWS at 703-260-0107 (8 a.m.-5 p.m. weekdays)



## Public Service Calendar

- Sundays      National Capital ARES Council Nets, 9 p.m.  
146.91 MHz (if not available, 146.79 MHz)
- Mar. 13      Alexandria St. Patrick Day Parade  
Jeanne Rexroad N4ZGI, (703) 971-0384
- Mar. 26-28    Virginia Special Olympics Spring Games, Fairfax County, VA  
Contact: Ed Ober KC4EFJ, (703) 591-0422 or  
Bob Lewis N4SCK, (703) 830-3495 or (703) 830-7325 ans. mach.
- Mar. 27      1993 MS Walkathon - Reston  
Contact: Ed Ober KC4EFJ (703) 591-0422 or  
Bob Lewis N4SCK, (703) 830-3495 or (703) 830-7325 (ans. mach.)
- Mar. 27      1993 MS Super Cities Walk - C & O Canal/Glen Echo Park  
Contact: Rob Whitely N3HQX, (301) 949-9525
- Mar. 27      MS Walkathon - Manassas  
Harry Vorhauer W4PVA, (703) 368-6050
- April 3      Cherry Blossum Parade  
Hani Raad N3IWM, (202) 223-3925
- April 18      March of Dime Walkathon - Leesburg  
Chuck Borgrink W4LFO, (703) 777-5836
- May 16-77    MS 150K Bikeathon  
Dave Rogers N4JGQ, (703) 237-5465
- May 22-23    American Lung Association Clean Air Challenge  
(150 mile bike trek Fairfax-Richmond)  
Contact: Bob Lewis N4SCK or Ed Ober KC4EFJ

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### Foundation Meetings

The Foundation for Amateur Radio, Inc. meets at 8:00 p.m. on the second Wednesday of each month.

**Visitors are always welcome**

Phone (301) 725-5822 for information

The next meeting will be on March 10 at the  
Lee Center, Alexandria, Virginia

Take Capital Beltway to Exit 1 (US 1 North)  
North to the second traffic light, Left on Gibbon Street to Fayette  
Left on Fayette to dead end at Lee Center parking lot.

Talk-in on 146.55



**FOUNDATION FOR AMATEUR RADIO**  
**Volunteer Examiner Cooperative**

Nancy Draheim - NK4U  
3513 Old Post Road, Fairfax, VA 22030  
(703) 691-0078

**SCHEDULE OF EXAMINATIONS**  
**1993**

**NOTICE:** If you presently have a Technician class license which was acquired prior to March 21 1987, keep a copy of this license available when you decide to upgrade to General class. It will be your responsibility to prove you are grandfathered for Element 3B (General Theory).

- Feb 27    Vienna Wireless Society (Vienna, VA) (ARRL VEC) Walk-in  
Contact: Ron Natalie, WO2L (703) 620-1727
- Mar 6    South Peninsula ARC (ARRL VEC)  
Contact: Ed Brummer, W4RTZ (804) 898-8031
- Mar 7    D.C.M. ARC (Landover MD) (ARRL VEC) Walk-in  
Contact Freddie Battle, NG3G (202) 546-9348 (Days) (301) 773-2898 (Evenings)
- Mar 12    Mount Vernon ARC (Alexandria, VA) (Laurel VEC) Walk-in  
Contact: Frank Mackey, N4GUS (703) 455-1510
- Mar 13    Anne Arundel Radio Club (Davidsonville, MD) (Laurel VEC) Walk-in  
Contact: Nancy Alley, NT3Z (410) 761-7115 or Bob Israel, WC3I (301) 262-5083  
  
Richmond, VA (W5YI VEC) Pre-registration required  
Contact: Dow Pierce (804) 232-8128
- Mar 15    Southern Maryland ARC (Temple Hills, MD) (Laurel VEC)  
Contact: Ray Simpson, WI3A (301) 894-0606 (After 4 p.m.)
- Mar 20    Laurel ARC (Laurel, MD) (Laurel VEC) Pre-registration desirable  
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.
- Mar 26    Stafford Area Repeater Assn. (Stafford, VA) (W5YI VEC) Walk-in  
Contact: David Boyd, K9MX (703) 659-6241 or Jim McCloud - N4LZJ (703) 786-8012  
  
Pentagon Amateur Radio Club (Pentagon Bldg. Room 5B272) (ARRL VEC) Exams 11:45  
Pre-registration desired, especially if you require escort inside the Pentagon.  
Contact: Mark Wagner - KB2PG (703) 697-5752 (Days) or (703) 239-1255 (7-10 p.m.)
- Mar 27    Greater Baltimore Hamboree & Computerfest  
Contact: (410) HAM-TALK (Leave Message)
- Mar 31    Maryland Mobileers ARC (Glen Burnie, MD) (Laurel VEC) Limited walk-in.  
Contact: Jerry Gavin, NU3D (410) 761-1423
- Apr 3    Middletown VE Team (Middletown, VA) (ARRL VEC) Limited walk-ins  
Contact: Walt Quitter, NC4B (703) 869-5241  
  
Williamsburg Area ARC (Williamsburg, VA) (ARRL VEC) Walk-in  
Contact: Andrew Swanson, WJ4X (804) 253-2811
- Apr 4    D.C.M. ARC (Landover MD) (W5YI VEC) Walk-in  
Contact Freddie Battle, NG3G (202) 546-9348 (Days) (301) 773-2898 (Evenings)



## Volunteer Examiner Cooperative - Continued

- Apr 9 Mount Vernon ARC (Alexandria, VA) (Laurel VEC) Walk-in  
Contact: Frank Mackey, N4GUS (703) 455-1510  
Piedmont Technical Center (Culpepper, VA) (ARRL VEC) Pre-registration requested  
Contact: Bill Brown, AC4KP (703) 547-3089
- Apr 10 Anne Arundel Radio Club (Davidsonville, MD) (Laurel VEC) Walk-in  
Contact: Nancy Alley, NT3Z (410) 761-7115 or Bob Israel, WC3I (301) 262-5083  
Massanutten ARA (Harrisonburg, VA) (ARRL VEC) Walk-in  
Contact: Marshal Cooper, N4ZKH (703) 856-8012 (6-9 p.m.)  
Richmond, VA (ARRL VEC) Pre-registration requested  
Contact: Rick Cook, AB4U (804) 798-5048
- Apr 13 Southern Patuxent ARC (Leonardtown, MD) (ARRL VEC)  
Contact: Dwayne Kincaid (410) 586-2177
- Apr 17 Laurel ARC (Laurel, MD) (Laurel VEC) Pre-registration desirable  
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.  
Mountain ARC (Cumberland, MD) (Mountain VEC) Walk-in  
Contact: Leo Patterson, KQ8E (304) 289-3576
- Apr 22 Baltimore ARC (Towson, MD) (ARRL VEC) Walk-in  
Contact: Bob Kennick - WB3HNV (410-426-8255)
- Apr 26 Antietam Radio Assn ARC (Hagerstown, MD) (ARRL VEC) Pre-registration requested  
Contact: Page Pyne, WA3EOP (301) 714-0688 (Day) or Bob Lay (301) 714-0688 (Evenings)
- Apr 27 Maryland Mobileers ARC (Annapolis, MD) (Laurel VEC) Pre-registration  
Contact: Ed Calhoun, W3DEQ (10) 647-0370
- May 1 Hampton Roads Radio Assn. (Hampton, VA) (W5YI VEC)  
Contact: Bill Runyon, N4BDH (804) 487-8611  
Fredericksburg VE Team (Fredericksburg, VA) (W5YI VEC)  
Contact: Kelly Shaw, AC4MB (703) 891-5581 or Carolyn Cavanagh, AC4SK 373-7076

If you presently have a Technician class license which was acquired prior to March 21 1987, keep a copy of this license available when you decide to upgrade to General class. It will be your responsibility to prove you are grandfathered for Element 3B (General Theory).

NOTE: All examinations require that you submit:  
Copy of your current Amateur Radio license (bring original)  
Completed FCC Form 610.

Check for appropriate examination fee.

Fees of individual VEC may vary.

FOR ARRL VEC EXAMS, THE COST IS \$5.60

FOR LAUREL VEC EXAMS, ALL TESTS ARE FREE

FOR MOUNTAIN VEC EXAMS, ALL TESTS ARE FREE

FOR W5YI VEC EXAMS, THE COST IS \$5.60

This schedule of examinations appears each month in Auto-Call Magazine  
Sponsored by the Foundation for Amateur Radio



# Training Classes

**Robert Armstrong, WA4SQL**

44 South French Street, Alexandria, VA 22304

Phone (703) 751-2294

**Novice Training, Vienna, VA. Starting March 16.** Sponsored by Vienna Wireless Society. Classes will meet on twelve consecutive Tuesday evenings from 7:30 until 9:00 p.m. at the Vienna Community Center on Cherry Street in Vienna. A Novice exam will be given on June 8. For additional information, call Paul Wilkins - AB4CY (703) 560-2779.

**Novice/Technician Training, Temple Hills, MD. Starting March 29.** Sponsored by the Southern Maryland Amateur Radio Club. Classes will be held on Mondays at 7:00 p.m. For additional information, call Ray Simpson (301) 894-0606

**General Upgrade Class, Herndon, VA. Starting April 3** and running for six weeks (ending on May 8). Sponsored by Herndon Repeater Group. All sessions will be held on Saturday mornings from 9:00 a.m. to 12:30 p.m. at the Trinity Presbyterian Church. Seating is limited to 20 students. To enroll, you must have a Technician Class license. General theory lectures will be provided and code speed will be increased from 5 to 13 wpm. An exam opportunity is scheduled for May 15. Contact Mike - WB8RDN to register.

**Novice/Technician & General Classes, Gaithersburg, MD. Starting April 13.** Sponsored by the Montgomery Amateur Radio Club. Free classes, lasting 7 weeks. Contact Jane - KA3YWU (301) 762-6262.

**Novice/Technician Class, Herndon, VA. Starting September 11** and running through November 20. Sponsored by the Herndon Repeater Group. The course will be held on Saturday mornings from 9:00 a.m. to 12:30 p.m. Novice Code, Novice theory and Technician theory will be taught. This class is designed for beginners wanting either the Novice, Tech Plus or No Code Tech license. Contact Mike - WB8RDN at (703) 450-2304 for details.

**Novice Training Classes, N.W. Washington, DC.** Sponsored by MADRAS. For more information contact Larry Zeichek - N3GKZ (301) 984-6112.

**Novice Training Classes, Towson, MD.** Sponsored by BRATS. Classes are being held on an on-going basis every Tuesday evening at the Towson Armory. Classes are free; Materials (which you keep) consist of a book and tape and cost \$19.90. For registration or information, contact Joe Chidester - W3SHZ (410) 602-0353

**Training Classes, Hagerstown, MD.** Sponsored by Antietam Radio Association, INC. Classes are held on an on-going basis. For information, contact Bob Long - KD3JK (301) 824-5132  
**SLOW CODE PRACTICE NET, 28.250 MHz 7:00 to 8:00 p.m. Wednesdays.** Sponsored by Woodbridge Wireless, Inc

**VIRGINIA TRAFFIC TRAINING NET - 3685 kHz 6:30 p.m. daily. 5 - 8 wpm.**

**SLOW CODE PRACTICE NET - 28.250 MHz 7:00 to 8:00 p.m. Wednesdays.** Sponsored by Woodbridge Wireless, Inc.

See Training Contacts by clubs  
on next page



## Training Classes

### General Information

Alexandria Radio Club	Rich Adamy - KA4GFY	(703) 644-3920
Anne Arundel Radio Club	Tony Young - WA3YLO	(301) 262-1917
Arlington Amateur Radio Club	Fred Bardsley - WD4DHW	(703) 533-0372
Antietam Radio Association	Robert Long - KD3JK	(301) 824-5132
Baltimore Radio Amateur TV Society	Joe Chidester - W3SHZ	(410) 602-0353
Fauquier Amateur Radio Club	Bill Mills - KC5PF	(703) 937-4090
Frederick Amateur Radio Club	Steve Bauman - W3FOA	(301) 662-4552
Herndon Repeater Group	Michael Weber - WB8RDN	(703) 450-2304
Laurel Amateur Radio Club	Pud Reaver - W3DQI	(301) 498-6293
MADRAS	Larry Ziecheck - N3GKZ	(301) 984-6112
Maryland Mobileers	John Baugus	(301) 551-3161
Montgomery Amateur Radio Club	Jane Rosenthal - KA3YWU	(301) 762-6262
Mount Vernon Amateur Radio Club	John Forrest - WZ4A	(703) 971-3905
NASA/Goddard Amateur Radio Club	Vikki Gigante - KA3PVS	(301) 249-2609
Ole Virginia Hams ARC	John Fritsch - N4YOB	(703) 791-5995
Pentagon Amateur Radio Club	David Boyd - K9MX	(703) 659-6241
Rock Creek Amateur Radio Assn.	Walt Ramsey - AK3B	(301) 949-3954
St. Mary's County ARA		(301) 862-2214
Shenandoah Valley ARC	Guy Black - W4PSJ	(703) 722-4952
Southern Maryland ARC	Vic Curtis - WA3YUV	(301) 888-1388
Southern Patuxent ARC	Dwayne Kincaid - WD8OYG	(301) 586-2177
Springfield Estates ARC	Will Schmitt - KD4CNX	(703) 768-5709
Stafford Adult Education	Jerry Mullinix - AC4HK	(703) 659-3905
Sterling Park Amateur Radio Club	Mark Johnson - WS3N	(703) 430-3804
Tri-County Amateur Radio Club	Al Sines - WA3QGA Box 710, College Park, MD 20740	
Vienna Wireless Society	Paul Wilkins - AB4CY	(703) 560-2779
Woodbridge Wireless, Inc.	Loyd Davis - K83I	(703) 360-0248

## Traffic Training Nets

Here is information on most of the local traffic training nets.

Listed are the net identifications, times, frequencies and Net Managers.

A post card to the manager or an inquiry on the net will get you more specific information.

Net	Freq	Time(s)(Local)	Net Manager/Info
MD Slow Net	3.717	7:00 p.m.	KC3Y
VA Slow Net	3.680	6:30 p.m. *	N4GHI
Md-Del-DC (MDD)	3.643	7:00/10:00 p.m.	K3GHH
VA Phone Net	3.947	4:00 p.m.	NW3K
MD Emergency Phone Net	3.905	6:00 p.m.	WD3W
VA Net	3.680	7:00/10:00 p.m.	N4GHI
NO VA Traffic Net	146.300	7:30 p.m.	N4DCC
MD Packet Traffic Net	N/A	24 hours a day	K2EB

\* The Virginia Slow Net is currently inactive, but would be "on the air" if interested readers contacted Geri - N4GHI.



## Traffic, Anyone?

Tony Young - WA3YLO

*This is the first of two articles on ARRL traffic handling. Next month will feature the Packet aspect of NTS. Authored by K2EB, manager of the MD Packet Traffic Net*

One of the main thrusts of ARRL remains the relaying of messages on a daily basis. It is true that we reach around the world from a low powered base station every day, but in time of emergency, organized, effective local movement of information would be critical. Those who listen to the phone nets during real emergencies know that hundreds of well-intentioned but untrained hams can disrupt smooth movement of the important traffic rather than helping. Getting the necessary training on the air can be fun.

One of the best buys in ham radio is the **ARRL Net Directory**, with over 80 pages of information, procedures and formats. It also includes sections on Packet. My purpose here is to call attention to LOCAL area traffic nets. They provide the opportunity to learn effective net procedures, phonetics, Q signals and operating techniques. On the CW bands, training is available for traffic handling, instructing, net control and liaison to other traffic nets. Many have upgraded to higher level licenses as a result of the code practice that instruction nets also provide. There are major outlets for national (and international) ARRL messages. These telegram-like messages move on HF phone and CW nets (usually on 80/75 meters), as well as via 2-meter FM phone nets and Packet. Most are afternoon and evening nets, but some operate early in the morning. Some are very local (like the Northern VA Net at 7:30 p.m. daily on 147.300). Each state usually has one or more traffic nets meeting one or two times a day. The whole idea (besides training) for checking into a traffic net is to help move the messages going out of state, and to deliver those coming in through a local phone call.

Local nets move their outgoing traffic to state nets, which have liaisons with section nets. The top "area" nets move stations which have checked in for their sections to nearby frequencies to receive or send messages for their section. Before reaching the addressee, a single message may pass through four or five stations while traveling up and down the net "tree. Most recipients are both surprised and pleased.

Some will argue that the messages are mundane and repetitive, and that may be so; but so is a fire drill. The fact is, that a seasonal greeting or birthday wish may be pretty special to the recipient, and give positive visibility to our hobby as a public service. Like the fire drill, traffic handling teaches us to function effectively in a real emergency.

Speaking of nets, there are those who have unkind words for nets that use specific frequencies on a regular basis. Of course no Amateur frequencies are "assigned," and most operate through the courtesy of the rest of the hams. The good news is that nets involve from 2 to 200 people who might otherwise be "playing the hobby" on 1 to 100 other frequencies in individual QSO's.

On the next page you will find a list of some of the local nets that you can tune in or check in. I have included call signs of net managers who would send you useful information and, in at least one case, some operating aids. For training, the Maryland Slow Net offers structured, on the air, instruction. The speed is paced to yours, and the pace of the course is at your pleasure since the instruction is personal between you and an instructor. Training messages are sent when you ask for them. When you finish, you have all the tools you need to handle ARRL messages and to participate in official traffic nets. Similar training is used by ARES/RACES groups, to take advantage of a proven method of moving information over the air.

The local phone and state CW nets provide "on the job" training, through observation and participation in their actual net activity as well as newsletter hints and instruction. Some nets have "eyeball" meetings at hamfests. Join this public service facet of our hobby, have some fun and meet some more nice people.

See the preceding page for information on most of the local nets.

Tony - WA3YLO





# ANNOUNCING THE VIENNA WIRELESS SOCIETY WINTERFEST™ 1993



SHUTTLE BUS

RAIN SNOW OR SHINE  
SUNDAY, FEBRUARY 28th

7:30 AM

AT THE

VIENNA COMMUNITY CENTER

120 Cherry Street  
Vienna, VA

SNACKS—DRINKS  
FOOD SERVICE

GENERAL ADMISSION

\$5.00 PER TICKET

XYL, UNDER 12 FREE

ALL YOUTH IN UNIFORM ADMITTED FREE

VEC EXAM 9 AM

SATURDAY

FROSTBITE  
TAILGATING

\$10 PER SPACE • OPEN 6 AM  
FIRST COME • FIRST SERVED

ORIGINAL DXCC  
FIELD CHECKING

SHUTTLE BUS FROM  
VIENNA METRO KISS & RIDE

7:30 AM–2:30 PM

TALK IN K4HTA/R

146.085in 146.685out  
146.190in 146.790out



USUAL AMENITIES      DRAWINGS EVERY HOUR    9–3

FOR INFO . . . NANCY DRAHEIM NK4U (703) 691-0078  
FOR TABLES CALL . . . HARRY KAKLIKIAN W4ACN (703) 978-4402

AN ARRL SANCTIONED HAMFEST



# Elmer's Corner

Paul Wilkins - AB4CY

*This column will be devoted to helping new Amateurs understand some of the common questions encountered by most of us in our early hamming endeavors. Write us about your problems and we will try to provide the answers. Your input will be most welcome.*

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## WORKING A HAMFEST

A "Hamfest" is an activity that serves many purposes from a vendor's newest equipment showcase, a miscellaneous spare parts emporium, a used equipment swap and sell, to a meeting place for new and old friends, a bite to eat, a chance to join an organization or two, buy a new antenna or your call sign on a personal nametag, and much more.

Hamfests are generally sponsored by a ham club or group of clubs. Even the smallest hamfests draw hundreds of attendees while larger ones like the Foundation for Amateur Radio's at Gaithersburg in September draw many thousands. The grand national hamfest in Dayton, OH. regularly attracts thirty thousand hams from all over the country and from around the world. You have to reserve nearly a year in advance for that one or have to settle for a motel room 50 miles away!

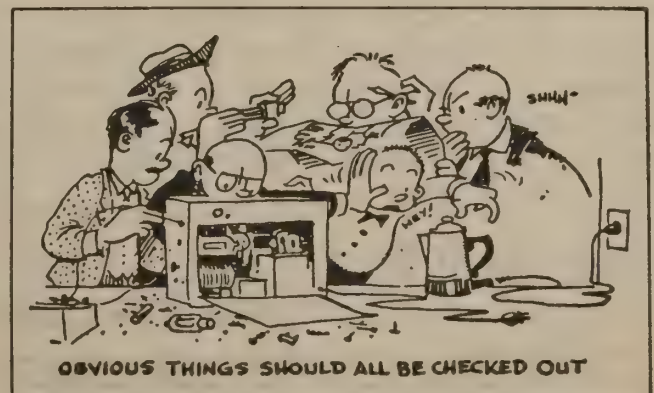
Working a hamfest is good practice for the newcomer to ham radio. You can get a broad overview of the multi-dimensions of our hobby. You can start with antique radios from the 1920's and 30's either restored or in need of TLC (junk). Then there is still WW-II surplus radio equipment almost 50 years old but still serviceable or useful for parts for homebrewing something. There are the veteran first and second generation SSB gear that use tubes and don't have digital readouts. And, there is equipment a few years old that has all the bells and whistles whose owner has upgraded to the latest and he has his former jewel up for sale.

Prices at a hamfest are set by the seller but are almost always negotiable. Sometimes there are similar equipments for sale by different vendors at the same hamfest, it may pay to shop around. The basic rule is that if you want a crack at the really good stuff you have to get yourself in early because by nine in the morning most of the cream of the crop is on its way to cars in the parking area. Of course, you have to have some idea of what you might want and

what price range you can afford. It might be a good idea to pal along with a hamfest regular for your first encounter. Mates and significant others, if they aren't so inclined, seldom take to hamfests so don't insist on their company. The best strategy is a fast walk through with a note pad, select a few prospects, and go back to find out about details.

An important part of an equipment purchase is getting an instruction manual. This will be invaluable in getting the gear up and running once you get it home. There are sources of manuals for the more popular gear but its a nuisance finding them. Ask about the equipment condition. Most sellers will give you an honest answer. It is a good idea to get the sellers name, address, call and phone number so you can follow up if necessary. If you really feel that your purchase was unfairly misrepresented the hamfest sponsors will generally try to help you obtain a satisfactory resolution. There is no real way to test the equipment so there is an element of faith in taking it home.

A hamfest, whether in the depth of winter or the heat of late summer, is a great experience delving into the past and projecting into the future. Do your business early, then relax and have fun, there's a treasure there just for you, all you have to do is find it. There will be more than a few boat-anchors for sale (or even giveaway) but maybe you could have a use for them too.





## Recognitions

**Stuart Meyer - W2GHH** became President of the Radio Club of America on January 1st, after serving two terms as Executive Vice President and many years of active service in the club. He succeeds President Fred M. Link - W2ALU. The Radio Club of America was founded in 1909 and is believed to be the world's first radio communications society. "Stu" has been very active in the local Amateur community, particularly in chairing several major conventions - including the annual DXpo's. He has also served as President of a number of prestigious organizations, including the National QCWA (1982-1985), President of the Foundation For Amateur Radio and many other clubs and councils in the area.

**The Springfield Estates Elementary School ARC** has been invited to make a presentation at the Dayton HamVention to tell the rest of the world about the club's formation, activities and educational programs. Several members will participate. All of the officers of SEES are under 12 years of age!

**The new Arthur Godfrey Memorial Foundation** has recently received a donation of Godfrey's old DC-3, executive transport airliner for exhibition at the Foundation's museum at the Aviation Hall Airport in Teterboro, NJ. The Foundation is currently involved in establishing the museum and in writing a book dedicated to the family and the legacy of the late Broadcaster, Entertainer and Aviator. Godfrey was well known in the Amateur Community as K4LIB and a number of local Amateurs have contributed information and material. Granville Klink - W3AFV has provided a wealth of photos, accumulated during Godfrey's early broadcast days. If you have any old photos, memorabilia or information that might be helpful, and/or you would like to be a part of this historical effort, contact Gil Geoffrion - N4QAS at TAGMF (703) 437-1559 or (703) 787-5750

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## Silent Keys

**Stanley B. Eames**, of Gaithersburg, MD died of cancer on January 17 at the age of 75. Eames was a retired NOAA official who helped develop the volunteer SKYWARN program. He had served as a public affairs director of the National Oceanic and Atmospheric Administration (NOAA) until 1990. He then became a consultant to the American Meteorological Society in Washington. Earlier, he worked with the Department of Commerce Environmental Sciences Service Administration.

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## DX Report - Continued

### AMATEUR RADIO IN ETHIOPIA

A recent article in one of the DX newsletters by Rudi, DK7PE reports that as of January 1993, five Amateur Radio licenses have been issued to foreign amateurs and that reissuing of licenses for Ethiopians will resume soon. A new radio club, the Ethiopian Amateur Radio Society, has been formed. Training of newcomers is one of the goals of the new society. There has been a fair amount of stations from Ethiopia showing up on the bands lately. 9F2CW has been on many bands and ET3YU has been active.

### THE BUS IS FREED

The long awaited HA5BUS cards are showing up in the mails. They have been sent from Los Angeles. The bus that was being held for duty has been released. A local person put up the necessary money to free it. It is unknown where the group will go now.



# DX DX DX

**John Kanode, N4MM**

## HOW TO RUN A GOOD DXPEDITION

There have been a lot of DXpeditions in the past few years, many plagued with less than desirable operating practices. Some have seen it necessary to spread the pile up over large parts of the band, causing interference to other stations not engaged in trying to work the DX. Poor choice of transmit frequencies has been another problem. In most cases, fights break out on top of the DXpedition transmit frequency.

The recent KH1, Howland Island DXpedition has avoided most of these problems. Why? They took time to do some advance planning in this area. One of the things that helps to reduce the early "I have to work them now" frustration is to have two or more transmitters come on the air at the start. The pile up is spread out over two or more bands and the level of frustration is less. Keeping three and four rigs on the air on different bands and modes at the same time is a big help in lowering this frustration level.

Once you have a good clean QSO with the DX station, people tend to settle down and not be so aggressive.

Using the new bands, which this group has done well, has helped keep the frustration level down. Another thing that they have done is to spread the pile up over only 10 to 20 KHz, not 50 or 100 KHz as some other groups have done in the past. They have tried to work the bands by propagation areas and this has helped the areas that do not have long windows of propagation to make contact with the DXpedition. They have kept the three or four stations on 24 hours a day and this has helped to make the operation a success from both standpoints. I am sure these fellows will put together a good slide/talk presentation and show it at some of the major conventions this year. If you are at one of these conventions in 1993, go see it.

### UPCOMING DXPEDITIONS:

VP2V/W2GUP	British Virgin Is.	Now to March 9
TT8OBO	Chad	March 15-April
C21BR	Nauru	To mid April
KP1/W5IJU	Navassa Is.	March 26-April 3
VR6JJ/BB	Pitcairn Is.	Now to March
XF4/XF0C	Revillagigedo	Feb. 18-March 5
S0RASD	Western Sahara	Feb. 24-March 6

### TIDBITS:

As advertised, the split up of Czechoslovakia took place on January 1, 1993 and the two new countries of Slovakia and the Czech Republic appeared. There was lots of on-the-air activity from both countries on January 1 and in the days following. Both countries have their own QSL Bureaus and getting QSLs from these two new ones should be easy. The DXAC is in the process of voting on this new development and the date for submitting QSLs will be announced soon. Please do not send any QSLs to ARRL HQ for DXCC credit for contacts with these new countries until a date has been announced.

### UPCOMING DX CONTESTS:

ARRL International DX Contest, phone	March 6-7
Bermuda Contest	March 20-21
BARTG Spring RTTY Contest	March 20-22
CQ WW WPX SSB Contest	March 27-28

The 5 Band DXCC start date has been changed. The start date for the Five Band DXCC Award has been changed from January 1, 1969 to November 15, 1945. This change is effective immediately. ARRL Management made this decision, in consultation with the Membership Service Committee, in order to simplify the program. Now that all DXCC "band" awards have the same requirements, anyone who has a 10, 40 or 80-meter DXCC will automatically be granted credit towards 5BDXCC. Likewise, a 160, 6 or 2-meter DXCC is sufficient for a band endorsement to 5BDXCC. A change to the CW DXCC is NOT planned for the foreseeable future. (Cont'd on page 26)



# 1993 Virginia QSO Party

March 20 - 22

From: W.T. "Red" Free-W3FTG, Contest Chairman, Virginia QSO Party  
Sterling Park Amateur Radio Club, 3527 Great Laurel Lane, Fairfax,  
Virginia 22033-1212. Phone (703) 709-0896

The Virginia QSO Party, sponsored for the 18th year by the Sterling Park Amateur Radio Club, is scheduled for 1800 UTC March 20 through 0200 UTC March 22. Plaques will be awarded to the top scoring Virginia and out-of-state stations, and to the top CW only, Novice/Technician, Club and VA mobile stations. Certificates go to the high scoring single operator in each state, Canadian province, and DX country; to all stations scoring 100 QSOs or more, and to top single/multi and multi/multi operations.

Work fixed stations once per band/mode. No cross-mode or repeater QSOs. Indicate all single operator/multi-transmitter or multi-operator/multi-transmitter operations for consideration as separate categories for certificates only. Work VA mobiles in each county from which they operate. Mobiles parked on county lines count as one QSO and as many county multipliers as they offer. Mobile stations count fixed stations only once as multipliers. Mobiles receive a bonus of 100 additional points overall for each Virginia County in which they log valid QSO. Exchange QSO number and QTH - County for VA stations; state, province or DX country for others.

## Frequencies:

160-meters through 2-meters, except no WARC band QSOs permitted.

Suggested frequencies:

CW - 1805 kHz and 50 kHz up from band edge on others.

SSB - 1815, 3860, 7260, 14260, 21360 and 28360 kHz.

Novice/Tech - 10 kHz up from the edge of the Novice CW band edge and 28360 or SSB.

All frequencies plus or minus QRM.

## Scoring:

Count one point per SSB QSO, 2 points per CW, and 3 points per QSO with a VA mobile. VA fixed stations multiply QSO points by total nr. of VA counties, provinces and DX countries. VA Mobiles add to this the bonus points for Virginia counties in which QSOs were logged. Others multiply QSO points by the number of Virginia counties worked (maximum of 95) to obtain final score.

Follow standard ARRL contest guidelines. Logs must include name, callsign, mailing address, band/mode, QSO number sent and received, and time of contact in UTC. For club competition (minimum of 3 valid entries), indicate the name of the club. VA mobile stations, indicate mobile operation and log QSOs by county of operation. Novices and Technicians, include a copy of your current license as proof of status. Include a summary sheet and a dupe sheet for 200 or more QSOs.

Mail your entries by April 15 to:

Virginia QSO Party  
c/o William T. Free-W3FTG  
3627 Great Laurel Lane  
Fairfax, VA 22033-1212



# ANNOUNCING THE 1993 GREATER BALTIMORE HAMBOREE AND COMPUTERFEST

SATURDAY, MARCH 27 AND SUNDAY, MARCH 28  
MARYLAND STATE FAIRGROUNDS  
TIMONIUM, MARYLAND

GATES OPEN AT 8 AM BOTH DAYS

## GIANT AMATEUR RADIO, COMPUTER AND ELECTRONIC FLEA MARKET SHOW AND SALE

### FEATURING

Giant Indoor and Outdoor Show and Sale Area  
Over 600 Booths-3 Buildings-Over 2 Acres Indoors-Deluxe Indoor Tailgating Area  
Entire Building for Manufacturers and Dealers-Over 16,000 persons attended in '92  
Ride The MTA Central Light Rail direct to the Fairgrounds

### AMATEUR RADIO

Transmitters • Receivers • Tuners • Antennas • Packet Radio • Ham Software • Parts  
and Components • Test Equipment • Electronic Surplus Items of all kinds, New and Used

### COMPUTERS

PC's and Clones • Amiga • Apple • Macintosh and others • Software • Hardware • Memory  
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### Many Show Special Bargains

Save 10% to 90% • Acres of Free Parking • Good Food

### OUR 22nd YEAR

ADMISSION \$5.00 Each Day

Show is open Saturday 8 am to 5 pm • Sunday 8 am to 4 pm

**SHOW WILL BE HELD IN ANY WEATHER**

Sponsored by: Baltimore Amateur Radio Club, Inc.  
P.O. Box 95, Timonium, MD 21094-0095



ARRL Approved

TALK-IN  
146.67 -  
224.24 -  
449.625 -



Dial HAM-FEST (426-3378) for a NEW 24 hour information system.  
Outside the Baltimore Metro Area Dial 1-800-HAM-FEST



### YOU'RE INVITED

To the 22nd Annual Greater Baltimore Hamboree and Computerfest, the largest springtime event of its kind in the Mid-Atlantic area. Last years attendance was over 16,000 people! Three modern buildings, over 2 acres comfortably under roof, hold over 600 display spaces. Dealers, manufacturers and Flea Markets display a wide range of amateur radio, computers, electronics and related items, new and previously owned.

### ENTRY TO FAIRGROUNDS PUBLIC

Shall enter the Fairgrounds through the MTA Light Rail's Timonium Station gate on Deereco Road or the York Road gate (both via I-83 exit 17). After 8 am only, public may also use the Timonium Road gate (I-83 exits 16 east). Acres of parking at all gates. Follow directions of the parking attendants. Handicap parking is via the York Road & Light Rail gates only (HC tags or permit only). Fairgrounds are on MTA Cental Light Rail Line. Trains run every 15 mins. Call 410-539-5000 for schedule.

### DEALERS, VENDORS, AND SELLERS

Must enter the Fairgrounds via the Timonium Road gate(I-83 exit 16 east or 16A). All sellers should be set up before 8 am. See the instructions in your confirmation packet.

### FOOD

Breakfast and lunch may be purchased within the exhibit halls. A light supper will be available Friday evening in the Exhibition Hall for the benefit of vendors.

### DEALERS DISPLAY AND SALES AREA

The Exhibition Hall is devoted entirely to dealers and manufacturers. INDOOR FLEA MARKET.

Spaces in the Home Arts building or the Cow Palace-\$30.00 per table for both days, includes 1 exhibitor's pass per table. Additional admissions at established rates. No single day reservations accepted. Spaces may be reassigned for one day upon advance application and approval. Parking near buildings is available. "Overnight parking restrictions apply.

### TAILGATING - OUTDOORS

Generous, marked outdoor flea market spaces on asphalt surface, each large enough to park a car and display your wares are \$5.00 per space per day. No advance reservations. Spaces are not numbered and are assigned on a "first come" basis. Spaces go on sale at 6 pm Friday night at the Vendors gate. Flea market fees are in addition to established admission fees. Nighttime security will not be provided. "Overnight parking restrictions apply.

### TAILGATING - INDOORS

Deluxe indoor tailgating spaces are now available in the Cow Palace. Set up and display your wares out of the weather. Spaces are just \$10.00 per space each day. The same conditions apply as in "Tailgating - Outdoors" listed above. Spaces available starting 6 pm Friday, March 26.

### OVERNIGHT PARKING RESTRICTIONS

Vehicles may be left on Fairgrounds property and in the Tailgate areas overnight but if occupied may be assessed a "camping fee" by the Maryland State Fair management. Dial HAM-FEST for details.

### DRAWINGS

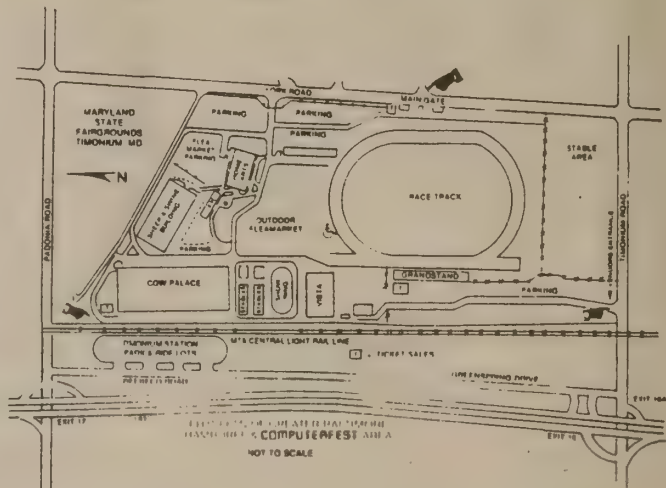
Postal regulations prohibit mention of games of chance or lotteries.

### MOTEL ACCOMMODATIONS

The Days Hotel, Holiday Inn and Red Roof Inn all of Timonium are the host inns for the Greater Baltimore Hamboree and Computerfest. Special rates are available for attendees. Reservations must be made by calling the inns directly. Days Hotel:410-560-1000; Holiday Inn:410-252-7373; Red Roof Inn:410-666-0380. You must mention the GBH&C to secure the special rates.

### FCC AMATEUR LICENSE EXAMS

Will be given on Saturday only by the Baltimore Radio Amateur TV Society (BRATS) VE. Advance registration is required. To register: Send a completed FCC Form 610, a COPY of your current license (if any) and a S.A.S.E. to: BRATS-VE March 27 Exam, P.O. Box 5915, Baltimore, MD 21208. Exams will be given in the Vista Room in the Administration Building. Check-in is at 9:30 am and exams will start promptly at 10 am. There will be only 1 exam session. There will no retakes or "walk-ins". For exam info only call Les, 410-833-8667 between 7 & 10 pm ONLY.



## THE 1993 GREATER BALTIMORE HAMBOREE AND COMPUTERFEST SATURDAY, MARCH 27 AND SUNDAY, MARCH 28 MARYLAND STATE FAIRGROUNDS, TIMONIUM, MARYLAND

Admission, \$5.00 each day

(children under 12 Free)

For Information Contact;

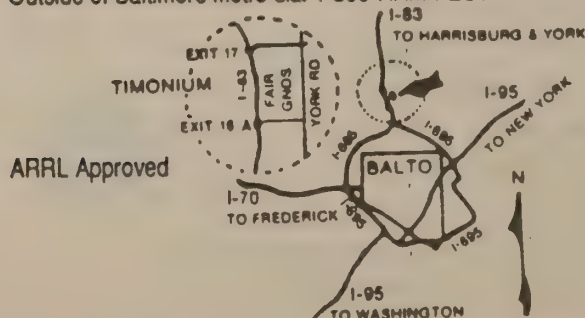
Greater Baltimore Hamboree and Computerfest

Post Office Box 95

Timonium, Maryland 21094-0095

or Dial "HAM-FEST" (that's 410-426-3378)

Outside of Baltimore metro dial 1-800-HAM-FEST



FEATURING: Special building for dealers & displays. Giant Indoor and Outdoor Tailgating and Flea Market with over 1000 display spaces plus 2 acres indoors. Our 22nd year!

Computers: IBM clones,  
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Amateur Radio:

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Morse Code Tapes

Packet Radio

Books

Software

Parts and

More Parts

Ride Central Light Rail direct to the Fairgrounds  
Acres of Free Parking • Open Rain or Shine • Good Food



## SKYWARN Amateur Radio Repeater Map For the National Capital Area



The following pull-out map shows the frequencies and locations of Amateur Radio Repeaters associated with the National Capital Area SKYWARN Net. SKYWARN packet information and NWS severe weather hotline and administrative information is also included on the map.

The primary net will be on the 147.300+ (WA4TSC-Bluemont, VA) repeater. The backup frequencies for the primary net are 146.91- (W4XG-Tysons Corner, VA) and 146.79- (W4LBL-Fairfax City, VA). The other repeaters shown on the map may be used by the second "roving" SKYWARN net to chase the storm per requests from the NWS forecasters. Other repeaters may be used as conditions dictate. All repeater operators and clubs giving SKYWARN permission to use their repeaters are thanked.

The National Capital Area SKYWARN Net has a large area of responsibility which roughly extends from the Pennsylvania border south to Charlottesville, Virginia and Fredericksburg, Virginia and from the Maryland portion of the Chesapeake Bay west to the Appalachian Mountains in West Virginia. All participants in the net should continually strive to learn more about the diverse geography of this immense area.

Training cannot, and should not, take place "on the job" during severe weather. Proper training is essential for the effective flow of information between SKYWARN spotters and the NWS and/or emergency management personnel. This includes training for spotters as well as net control volunteers. To be effective, everyone in the SKYWARN "system" needs to know their roles BEFORE severe weather strikes.

SKYWARN is the NWS national program of trained volunteer severe weather spotters. SKYWARN volunteers support their local community and government by providing the NWS with timely and accurate severe weather reports. These reports, when integrated with modern NWS technology, are used to inform communities of the proper actions to take as severe weather threatens. SKYWARN, formed in the early 1970's, has a long history of providing critical severe weather information to the NWS in time to get the appropriate warnings issued. Thus the key focus of the SKYWARN program is to save lives and property through the use of the observations and reports of trained volunteers.

Amateur Radio has been, and always will be, a critical component of the National Capital Area SKYWARN program. We are extremely fortunate to have hundreds of trained SKYWARN spotters who are also Amateur Radio operators. This dual role for Amateur Radio operators is a natural result of their inherent interest and fascination with natural and scientific phenomena (especially the weather!) and with cutting edge technology such as Doppler radar and lightning detection devices. When this fascination is combined with the ability and desire to be trained to communicate severe weather observations via Amateur Radio in a professional and effective manner, the synergy is hard to duplicate. Finally, Amateur Radio operators have a long history of using their training, skills and equipment in uncompensated public service to help the community at large, which is precisely the focus of the SKYWARN system.

See the back page of the map for more information.

*Please save this pull-out for future use.*



Revised 07JAN93

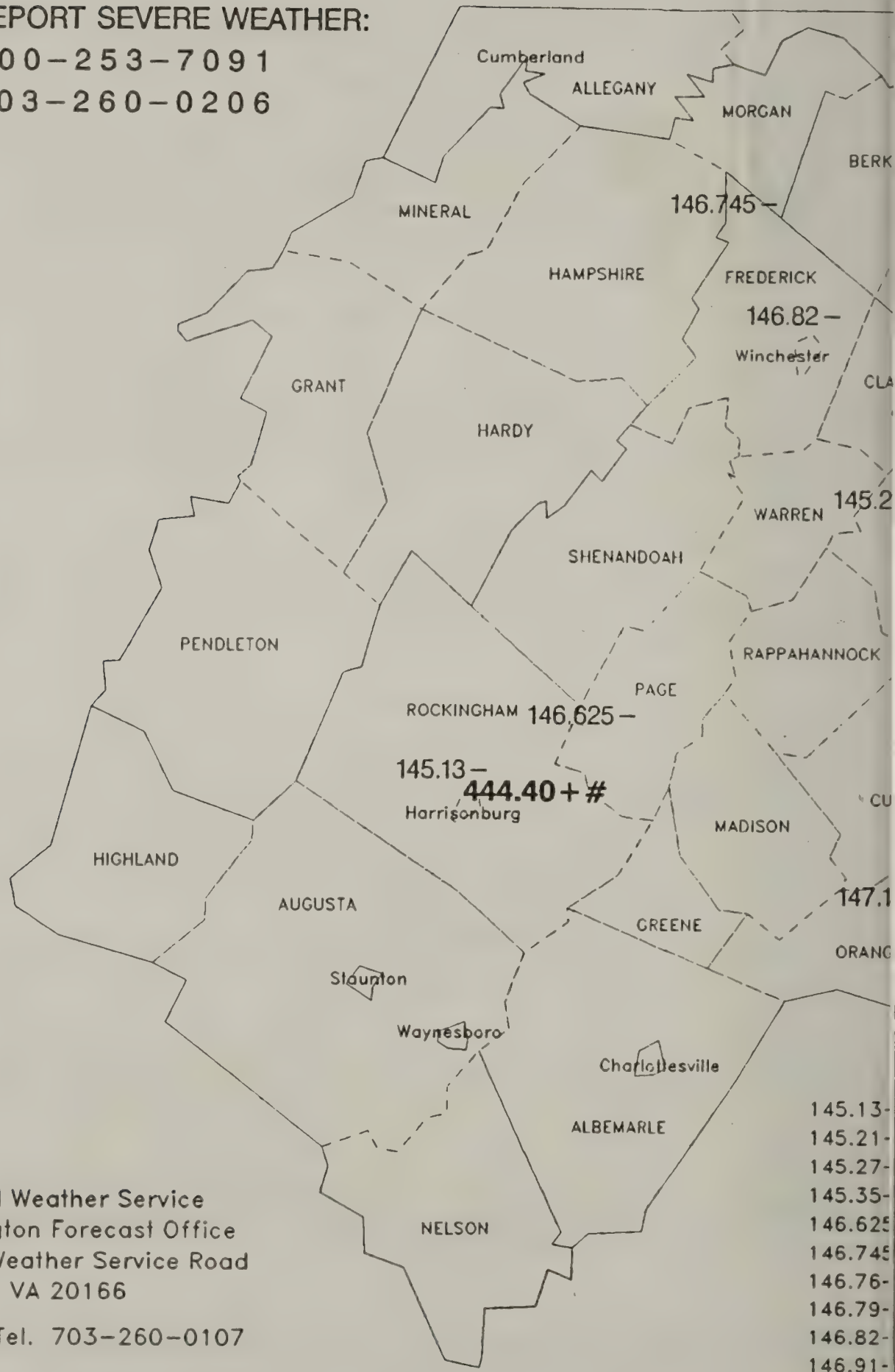
NWS / SKYWARN

Washington DC Weather  
COUNTY AREAS OF RESPONSIBILITY

TO REPORT SEVERE WEATHER:

1-800-253-7091

703-260-0206



National Weather Service  
Washington Forecast Office  
44087 Weather Service Road  
Sterling, VA 20166

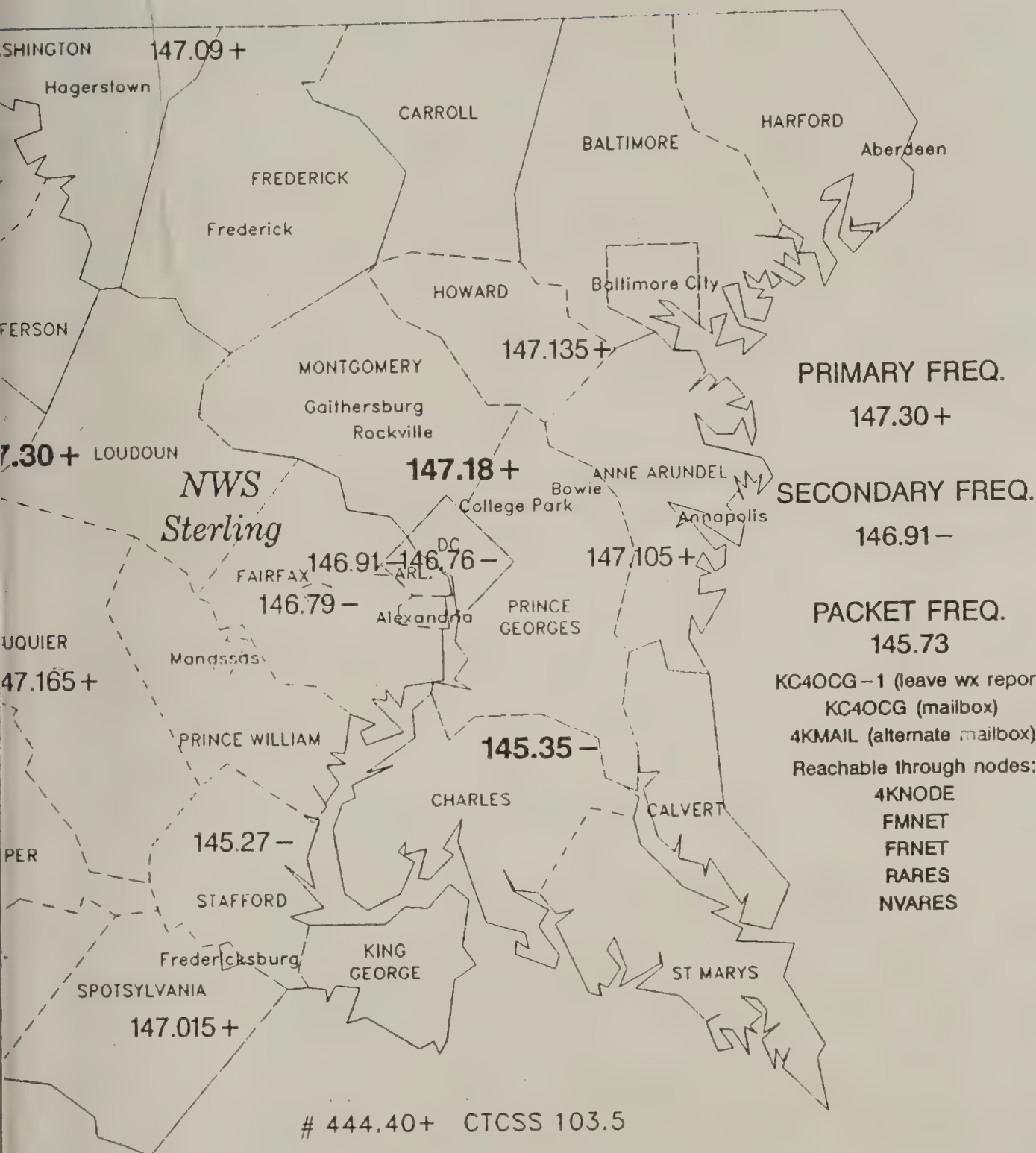
Admin. Tel. 703-260-0107



# N Sterling, VA

Service Forecast Office  
FOR SEVERE WEATHER WARNINGS

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Harrisonburg, VA  
Linden, VA  
Stafford, VA  
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New Market, VA  
Berkeley Springs, WV  
Washington DC, DC  
Fairfax, VA  
Winchester, VA  
Tysons Corner, VA

147.015+ Fredericksburg, VA  
147.09+ Hagerstown, MD  
147.105+ Davidsonville, MD  
147.12+ Culpeper, VA  
147.135+ Columbia, MD  
147.165+ Warrenton, VA  
147.18+ Silver Spring, MD  
147.30+ Bluemont, VA  
444.40+ # Madison, VA HAMTALK NETWORK



## Goals for the SKYWARN Amateur Radio Net:

The following are the primary goals for the SKYWARN Amateur Radio Net:

1. To provide the NWS with timely and accurate severe weather reports via Amateur Radio. This includes both incoming reports of severe weather per the NWS criteria and Amateur Radio operators making observations at specific locations in response to a NWS request. For example, Amateurs have often been asked to monitor river and creek flooding situations at certain critical points.
2. To create and maintain an organized communication network for passing critical severe weather traffic in a timely fashion to and from the NWS in the event that normal communications have been interrupted. The NWS has lost normal communications services in the past and, due to the often critically important information generated by the NWS, it is likely that the SKYWARN Amateur Radio Net would be activated in future communications emergencies.
3. To disseminate warnings and special weather statements issued by the NWS to the Amateur Radio community. Every attempt is made to read special and severe weather statements issued by the NWS over the SKYWARN net to keep Amateurs informed of developing situations and to practice for situations when normal communications channels fail.
4. To organize and train Amateur Radio operators to prepare themselves and their families for disaster or emergency weather related situations so that they may be available to assist in emergency net operations. This preparedness training is critical if the SKYWARN system is to be expected to operate reliably during true emergency situations.

The SKYWARN Amateur Radio Station and computer equipment, located in the NWS Washington Forecast Office in Sterling, Virginia is all donated equipment and is maintained by Amateur Radio operators volunteering their time and expertise. The initial grant to fund the station came from The Foundation for Amateur Radio, Inc. The station provides a visible focal point for the importance of Amateur Radio to the NWS, even when SKYWARN is not activated. This is extremely important as the NWS annually receives many thousands of visitors at the forecast office, from elementary school students through high ranking government officials and emergency managers.

### Severe Weather Criteria

#### Summer:

1. Tornadoes, funnel clouds or rotating wall clouds
2. Hail (dime size or larger)
3. Wind 50 mph or greater
4. Flooding
5. Rain in excess of 1 inch per hour
6. Damage by wind or lightning
7. Downed trees or power lines

#### Winter:

1. Snowfall in excess of 4-inches
2. Severe icing on trees, streets, or power lines
3. Sleet or freezing rain
4. Wind in excess of 30 miles per hour
5. Downed trees or power lines
6. Impassable or closed roads



# M A D R A S

## The Maryland Apple Dumpling Radio Amateur Society Inc.

**Meetings:** 2nd and 4th Thursdays - 7:00 p.m. NBC Building, 4001 Nebraska Avenue, N.W.  
First Saturday - 10:00 a.m. Informal meeting at the clubhouse.  
**Repeater:** 444.100/449.100 MHz 145.45/144.85 MHz  
**Packet:** 145.55 MHz Node 44.96.0.85  
**BBS:** (301) 258-1954  
**Mailing:** P.O. Box 2468, Wheaton, MD 20902  
**Information:** Scott Standiford, W3YTW (301) 589-9321 or BBS  
Larry Zeichek, N3GKZ (301) 984-6112

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**March 11** - The first regular monthly meeting will be held at 7:00 p.m. in the WKYS-FM conference room at NBC, 4001 Nebraska Avenue, NW. The presentation will be a discussion of Field Day '93 and the appointment of people to the working committees for the event.

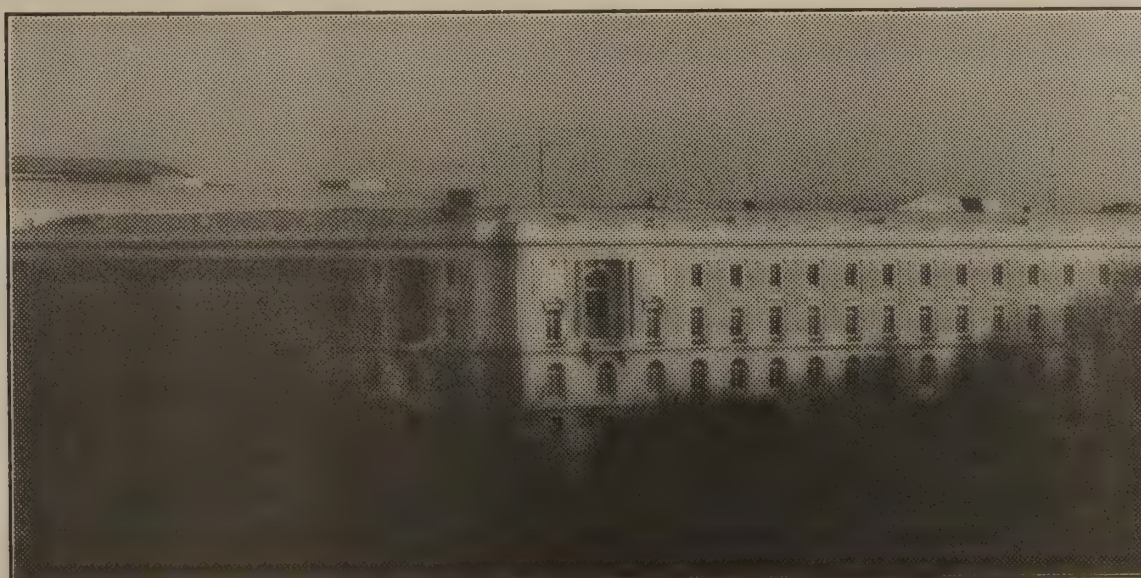
**March 25** - The second meeting of the month will be held at 7:00 p.m. at the clubhouse at 11,800 Coakley Circle in Rockville. It will be devoted to filling out certificates for those who worked the Inaugural special event station, W3USS. Bring your best pen and a hot pizza to carry you through the evening.

**March 27** - The QSL Party continues at 10:00 a.m. (Saturday morning) at the same location.

The MADRAS Inaugural Special Event Station, W3USS, was a success. In its three days of operation, around 2,500 stations were contacted. With the exception of the WARC bands, the station worked all Amateur frequency segments between 2- and 160-meters. If you were one of those we worked and you desire a certificate, send an SASE to Box 2468, Wheaton, MD 20902. Please include your contact number, as this makes it easier to verify your contact.

Please do not reply to W3USS as the response will be coming from MADRAS. The certificates will not be mailed until the end of March. Thanks to all in the Capitol Hill Amateur Radio Club who made this possible.

Scott Standiford - W3YTW



*Russell Senate Office Building on Capitol Hill*

*Location of the W3USS Station is in the basement of this corner of the building*



# Goddard Amateur Radio Club

WA3NAN

Meetings:	Third Wednesday of the month at 5:00 p.m. Goddard Radio Club Station, Soil Conservation Road, Greenbelt Maryland, across from the Soil Conservation Road gate of the Goddard Space Flight Center. This road may be accessed from either Route 193, Greenbelt Road, or Powder Mill Road.
Repeater:	146.835 MHz
Net:	Information net every Thursday evening at 9:00 p.m. local time. All Amateur Radio operators are welcomed. Net Control is Pat Gossard - N3KGY
Information:	Chuck Sommer - N4OSD (301) 286-6790 or Vikki Gigante - KA3PVS (301) 249-2609

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## SHUTTLE RETRANSMISSION WORKSHOP:

Yes, we finally have it scheduled. This workshop is for all Amateurs interested in volunteering for the shuttle retransmission effort. If you are a licensed Amateur and a bit of a space nut, we would love to have you join our ranks as a shuttle retransmission volunteer. To do this, you must attend the shuttle retransmission workshop, currently scheduled for Saturday, April 3 from 9 a.m. - 1 p.m. This will be held at the GEWA Recreation Center which is on Good Luck Road in Greenbelt, Maryland. You must also become an associate member of the Goddard Amateur Radio Club. This is because of security requirements at Goddard. Dues for members are \$12.00 per year. Lunch will be available at the workshop and we will have coffee in the morning! A tour of the club facilities will be provided after the workshop. Topics to be covered will include how to bring the station on-line and take it down, what can and cannot be retransmitted, SAREX, Keplerian Elements, and the Watson system. Also, progress on the new shuttle retransmission trailer will be covered. This workshop should also be attended by current operators as a refresher course. If you would like to volunteer and register for the workshop, please call Vikki at (301) 249-2609.

There is much excitement in the world of shuttle retransmission these days. We have a launch on February 18, STS-55 which will be a spacelab mission and will be nine-days, 24 hours a day; and one on March 11, STS-56 which will feature the ATLAS or atmospheric satellite. This will be a nine day, 57 degree inclination mission. Ken Cameron will be the Amateur on board. These are both SAREX missions. The first will be a 2-meter voice and packet. The second will have these plus Amateur television on board. On April 28, there will be a 7 day,

spacelab mission which will also feature the retrieval of the EUREKA satellite. This is also a SAREX mission. We recently had the opportunity to give a demonstration of who GARC is and what we do in Shuttle Retransmission to the NASA Administrator, Mr. Golden, and to the Center Director, Dr. Klineberg. They were favorably impressed by WA3NAN and asked to participate in SAREX. We will gladly welcome them to the club anytime they are interested.

We would like to thank Ron Parise, Dave Gossard, John Stolarik, Jim Blackwell, Jeff Nucciarone, and all of the others who got the station cleaned up for our VIPs visit. You all did a great job!

There will be a novice / technician / tech plus class starting on Sunday, February 28, at the fire station in Odenton, Maryland. Theory and code will be covered. If you are interested in taking this class, contact John Baugus, N3JME at (301) 688-7551 or Vikki at (301) 249-2609.

Hamfest season is fast approaching and we will be at the BARC Hamboree at Timonium on March 27 and 28. See you there!

The Newly reactivated WAYLARC will also have a table at this hamfest - come see us, all you YLs whether you are an Amateur or want to become one. Our meetings are held quarterly. Right now, we will be meeting at RIP's in Bowie at noon on February 27 and in McLean, VA in June. For further information contact Susan Svenson at (410) 257-2861 or Vikki at (301) 249-2609!

By the way, anytime we are doing shuttle retransmission, you are more than welcome to come and visit us at the club station to see what we do and how it is done.

Vikki - KA3PVS



# Prince George's Wireless Assn.

**Meetings:** First Working Tuesday of each month, 7:30 p.m., American Red Cross Service Building, 6206 Belcrest Road, Hyattsville, MD 20782

**Club Station:** K3CEZ

**Mailing:** 4109 Kennedy Street, Hyattsville, MD 20781

**Information:** Frank Holton - WA3ZMW (301) 927-1245

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Prince George's Wireless Association meeting on January 5th was well attended, with better than 50% of the membership showing.

President Frank Holton - WA3ZMW had a pleasant surprise for everyone when he presented an Achievement Award to Charles C. Church - KA3COT for more than 12-years of devoted service to PGWA.



*Achievement Award  
Presented to KA3COT by WA3ZMW*

Charles is the club technician keeping the radio gear and antenna systems in working order. Charles either volunteers or is always there when called upon to help with activities.

It was mentioned that one of our long-time members, Les Werling - WA3NGF had been hospitalized and undergone surgery for an aneurism of the aorta. We are happy to report that Les came through the ordeal and is now recuperating nicely at home. We offer our best to you, Les.

The new emergency call-up list for the club is now in readiness. This list, outlined by Dan - W3SWD and approved by the president and officers, will be passed out at the next meeting. Each year this is updated, due to priorities and other circumstances.

The photo below show the officers of PGWA. Everyone is anxious to help with club activities for the new year.

Ken Easton-N3HLY



*PGWA Officers*  
N3HLY KA3COT WA3ZMW WA3NSI W3SWD



# Mt. Vernon Amateur Radio Club

Meetings: Second Thursday of Each Month, 7:30 p.m. (except December)  
Mt. Vernon Governmental Center, 2511 Parkers Ln., Alexandria  
Repeater: WD4PDP/R 146.055 input 146.655 output  
Nets: Every Tuesday at 8:00 pm (0100 UTC Wednesday's)  
Starts on 2-meter then moves to 10-meter on 28.405  
Information: John - KI4HK (703) 780-2882 or Mike - KE4ER (703) 780-8028  
Training Classes: John Forrest - WZ4A (703) 971-3905  
Mailing Address: c/o Frank Mackey - N4GUS, 8072 Athena St., Springfield, VA 22153

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In December, we had our annual Christmas party. It was great with plenty of participants and some crazy gifts. THANKS to the Alexandria Harmonizer's The Pleasure is Mine for their entertainment. January brought Tony Young - WA3YLO, a great speaker from FAR, to tell us all about FAR's history and some of our club's history.

We had lots of visitors in January: Paulo Teixeira - N3MGA, Lisa White - KD4EIA, Paul Miller, Mike Shoupe (waiting for call), Brian Britt and Chris Harrison. THANK YOU ALL for signing our guest book. WELCOME TO THE CLUB goes out to lots of new members: Julie Abrams (call waiting), George Coyne (call waiting), Adolph Zborofsky - KD4IEG, Larry Watson (call waiting), Stephen Werner (call waiting), Sam Odom (call waiting), Eoin O'Donoghue (call waiting), Mark Parent - KC4AFU, Charles Rexroad (call waiting), and Sam Brutcher (call waiting). WOW! What a lot of people waiting on their calls. CONGRATULATIONS on joining one of the best hobbies around!

The General-Extra class is well underway under the direction of John Forrest. We are looking forward to lots of upgrades.

Speaking of upgrades, we've had a bunch of them which I haven't mentioned. I'm afraid I'll leave somebody out, but I know that Bob White - N4ENP made Advanced, Bruce Bolstad - KB4EBK made General, Chris Grabiell - KD4LST made Tech Plus, Chris Harrison passed written Novice. Forgive me if I missed you - PLEASE let me know if you upgrade or pass a test so I can sing you the praises you deserve!

We are still testing on the second Saturday of every month at Lee District Park in Fairfax County. There is no charge and walk-in's are

welcome. Pre-registration (and information) is available by calling Frank - N4GUS at (703) 455-1510. Anyone interested in being a VE or helping at the exams (you don't have to be a VE to help out) should also get in touch with Frank.

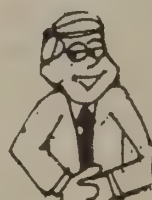
By now, our Special Event is history. At this writing, I don't know all the details, but I'll bet we had fun! More next month.

**An MVARC History Tidbit** - MVARC did not start its existence with this name. We started as the Ft. Belvoir Amateur Radio Club sometime in the 1950's. It was April, 1981 that we changed our name to the Mt. Vernon Amateur Radio Club.

February's meeting is on the 12th - see you there!

Marci - KM4VM

## Rib Ticklers



A modern husband believes a woman's place is in the home - and he expects her to go there immediately after work.

You have to watch your language when you are talking to these modern women. When I said I didn't want any 4-letter word during February, I had to explain that I meant SNOW. She looked a bit relieved and said, "Oh, I thought you were talking about COOK, BAKE, DUST, WASH, IRON, Etc."

Recently seen on Packet: "What do you mean we don't communicate? Just yesterday I faxed you a reply to the recorded message you left on my answering machine." (Adapted from "The Beacon", St. Augustine, Fla.)



# Montgomery Amateur Radio Club

Meetings:	1st and 3rd Wednesdays of each month at 7:30 p.m. Executive Office Bldg. Montgomery Co. Government Center, 101 Monroe St., Rockville, MD. Park underground on G-2.
Repeater:	146.355 in (Rockville & Germantown)/146.955 out (Rockville)
Mailing:	M.A.R.C., P.O. Box 611, Gaithersburg, Maryland 20884-0611
Information:	Jeff Horlick - KZ3F (301)258-0112; Steve Todd - K2IYQ (301)253-4172
Training:	Jane Rosenthal - AA3CQ (301) 762-6262; Dick Hayman - K3DML 340-8251

Following up on a "hunch", the Montgomery Amateur Radio Club (M.A.R.C.) Reporter learned from Jane-AA3CQ that M.A.R.C.'s Public Service "holiday activity" at Shady Grove Hospital was a huge success. The alert reader will recall that M.A.R.C. member and Registered Nurse, Joyce - N3LHX had requested volunteers last December to role play as FCC-licensed Santa Clauses for several inpatients of the Pediatrics Ward. With R.N. Joyce coordinating, M.A.R.C. gave new definition to the meaning of the term "testing the hospital radio net." Running portable with H/Ts on 2-meters simplex, M.A.R.C. volunteers relayed official "traffic" to Santa Claus from five youngsters who specified their hearts' desires. For bringing joy to "sick kids," the following M.A.R.C.onians are cited for their generosity of spirit: Jane-AA3CQ; Ken-KD3VK; Ron-N3KQY; Ross-WA2WDT; and Joyce-N3LHX.

And the WINNER is Jeff-KZ3F!!! Following the Club's Special Election held January 20, M.A.R.C. has a new Repeater Trustee. Congratulations to each of the other nominees (Hank-N3ESR, Steve-K2IYQ) and best wishes to Jeff for a long, productive tenure.

The final numbers are a matter of public record, and M.A.R.C. ended 1992 with an all-time membership high of 308. As of January 20, the Club had experienced an 88% renewal rate (262). FYI, sorting the membership data base by "class of license" yields the following results: 25% Extra Class, 26% Advanced Class, 18% General Class, 30% Technician Class, and 2% Novice Class. (No one in M.A.R.C. is allowed to remain at "entry level" for more than 10 minutes! Hi, hi).

This leads us to the next point: Ron - N3KQY and Jane-AA3CQ announced the start-up of a M.A.R.C.-sponsored Novice and Technician Theory Class starting April 13 at 7:00 p.m. locally. The class will meet twice a week for

approximately 6 weeks. If you are interested in teaching or mentoring this class, please contact Jane-AA3CQ or Ron-N3KQY ASAP. The need is critical for skilled CW operators; if you read this article and recognize yourself in that elite category, would you please consider sharing your talents with others for the good of the Club?

M.A.R.C. wishes to express its formal appreciation to Stan-W3INK for his thoughtful program presentation to the Club entitled "High Energy Vacuum Tubes." Stan documented strategic research being conducted by the Department of Energy (in concert with Princeton University) to successfully create magnetic fusion.

Al-KN3U announced at a recent M.A.R.C. meeting that he is still looking for the rightful owner of a "like-new" Army-green canteen left over from last year's Field Day exercises. Please contact Al directly if yours turned up "missing in action." Else, the plan this year is to place it in the same spot where it was found! (Just kidding.)

As this issue went to press, the late breaking news was of M.A.R.C.'s successful fox hunt held January 30. A great time was had by all, including the well-prepared "fox," Matt-N3LFZ. First to find the fox (well hidden in a thicket of bushes adjacent to the Visitors Center at Black Hills Regional Park) was the team of Mark-NW3S and Erinn-N3HSA. 1st runner-up - the team of Bob-N3JLN and his father, Joe-N3KRQ. 2nd runner-up-the team of Aaron-N3NMT and Craig-N3NKD; Our appreciation goes to Matt-N3LFZ, whose hard work ensured that the fox hunt was challenging yet fair to all.

For a good "read", be sure to subscribe to AUTO-CALL; for a good "ragchew," be sure to stay "clear and listening" to 146.955 MHz!

Erinn-N3HSA



# Shenandoah Valley Amateur Radio Club

Meetings: First and third Fridays of each month at 7:30 p.m.  
The SVARC clubhouse at 2921 Grace Street in Winchester, VA.  
Repeater: 146.22 in 146.82 out  
Net: Shenandoah Valley Emergency Net, 7:15 p.m. daily, 146.22/82  
Mailing Address: P.O. Box 139, Winchester, VA 22601  
Information: Mike Baptist - KD4EPZ (703) 772-6186

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The building project is now complete. The buildings were dedicated at a special ceremony on January 15, let by the Rev. John Robinson of the Highland Memorial Church. Although every SVARC member past and present in some way small or large helped make the project possible, there were two members who performed above and beyond the call of duty. The club wishes to express its appreciation to Charlie - K4LWG and Mike - W4ACC for a job well done. We named the buildings in their honor. Club President Walt - WA4HVV presented Charlie with a plaque and letter. Irv - KD4BHV, club vice-president, presented the plaque and letter to Mike.

After a closing prayer by Rev. Robinson, Ed - K3THD presented a delightful program, complete with slides of his recent trip to Russia. Ed travels the world as a consultant. His home in Shawneeland is filled with mementos of his trips. In addition to Amateur Radio and traveling the world, Ed enjoys collecting things.

As a matter of fact, he has built a new building to house his collection. A very interesting fellow, indeed.

The club repeater went down recently. After putting the backup on line, Irv - KD4BHV took the unit home and did extensive repairs. It again went down and this time the backup wouldn't work. Within hours, Irv had both units working. I guess Jane - KD4IET, Irv's wife, is happy to have her dining table back. It seems as though Irv likes the table as a work bench.

On January 23, the SVARC hosted a SKYWARN class. There were 22 people for the basic class and 22 for the winter storm class. Barbara McNaught, from NOAA weather, conducted the classes. We hope to schedule more classes later in the year.

We have two new members in SVARC. They are Marc Dominguez - KB4KRO and Evan Jayson - KD4RGU. Welcome to SVARC.

Walt - WA4HVV

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## Quarter Century Wireless Association Local Chapters

QCWA members have a busy schedule this spring, with a Chapter 91 luncheon meeting in March and three chapter members going to the national Board meeting in April; the QCWA / FAR Spring Banquet in May and the annual picnic in June. We are looking forward to a good turn-out at all of these affairs from members of all the local chapters. The Sunday morning net continues to draw a large attendance and an increasing number of most welcome "eaves droppers" who enjoy the "cabbages and kings" trivia and some great technical discussions. Listen in at 9:00 a.m. on 146.79. If you were licensed 25 years ago, you'll get your arm twisted to join QCWA.

Emerson "EM" Mehrling - W4NH gave us a scare on January 31 when he landed in the hospital with a serious heart attack. As of press time, he was expecting to go home on February 14 - and get back on the air immediately. Ann Swafford, YF of W4HU, is making a slow recovery from a broken hip. Bill Grenfell - W4GF is doing reasonably well at Iliff Nursing Home. The address is 8000 Iliff Dr., Dunn Loring, VA 22027. Let Bill know we are still thinking of him.



# Tri-County Amateur Radio Club

**Meetings:** Semi-annual business meetings, time and date announced on the air and in the club newsletter.  
**Repeater:** KA3LAO/R, 147.780 MHz in; 147.180 MHz out.  
**On-the-air:** Tuesdays at 1930 hours (Local time).  
Amateur Radio Newsline Tuesdays at 1915 hours (Local time).  
**Mailing:** P.O. Box 10592, Silver Spring, MD 20914

After taking a month off, we're back. During these past two months there have been a number of significant technical improvements made to the 18 machine by our trustee, John-KA3LAO. For those who have not yet heard, changes have been made to the repeater receiver system. Two new receiver sites have been added and one shut down.

There are now a total of six receiver sites and a significant improvement in coverage in several areas. The six receiver sites are: Ashton, Bowie, NorthWest Washington, Andrews Air Force Base, Damascus, and Seat Pleasant. The former White Oak site has been deactivated. Make sure you let John know how these changes are working.

If you have been listening to the repeater lately you may have heard some strange sounding communications referring to "links". John is in the final stages of completing the linking of the 18 machine into a very large network of repeaters which extends from North Carolina through Virginia and West Virginia into Pennsylvania. Concurrently work is ongoing to install a repeater linking system within the State of Maryland. The end result will be the ability to link the 18 machine with a number of repeaters all the way to Ocean City. We are anticipating that by this summer a person in Ocean City will be able to link back to the 18 machine just as if they were local. This new feature of the 18 machine will significantly enhance the utility of the Tri-County repeaters.

All regular users of the 18 machine are familiar with the interference we have been experiencing from distant repeater users. In order to minimize the impact of this interference the 18 machine will be employing PL when needed, on those receiver sites which are experiencing the interference. The Damascus and Seat Pleasant receiver sites are currently on full time PL. Just be aware that the control operators will be activating PL whenever the need arises.

The 18 machine serves as the base operating point for the Prince Georges County ARES/RACES organization. They meet each Wednesday at 2100 local for their on-the-air training and information net. Members should note the time change and those who would like to participate are encouraged to join the net. Mark your calendars for April 24th which is the scheduled day for this year's "Christmas in April" program. You don't have to be a member of ARES/RACES to help. If you are available on April 24th, please give George-KA3KIF, the PG EC, a call.

Don't forget the Tri-County on-the-air net which meets each Tuesday at 1930 local. If you are listening at 1915 you will hear the latest NewsLine information, ARRL bulletins, ARRL propagation forecasts, and the latest exam schedules throughout the area. NewsLine is an Amateur Radio news service from California which always has information of interest to the Amateur community.

Greg - WA3FSC

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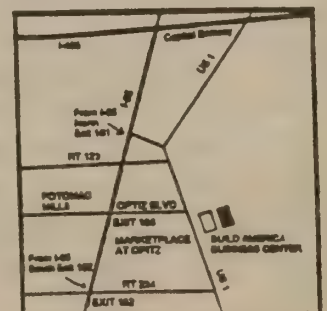
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## Washington Metropolitan Area IBM Amateur Radio Club

Meetings: First Tuesday of the month that is a work day, 5:45 p.m. - 7:00 p.m.  
Next Meeting: March 2nd at 5:45 p.m.  
Building 182, Room 3C51 (The Radio Shack) (301) 240-6877

Chat Net: Second Wednesday of each month, 5:00 p.m. 145.520

Packet: 145.610 MHz, running TCP/IP netcode (WA3YHE-1)

Information: Erinn Tordella - N3HSA (301) 240-6200  
The Radio Room (301) 240-6877

**MEETING DAY:** The IBM Amateur Radio Club meets the first Tuesday of the month that is a work day. The meeting day was changed **from** 1st Wednesday **to** 1st Tuesday to facilitate attendance at both the Radio Club meeting (5:45 pm) and IBM PC Club meeting (7:00 p.m.).

**NEW MANAGEMENT ADVISOR:** The WMA IBM Amateur Radio Club is extremely pleased to announce that Shirley Hayes has graciously agreed to serve as our group's Volunteer Management Advisor! As such, she will be our liaison with the WMA IBM CLUB peer Management Advisor. Shirley's "new" job description includes advice and consent on matters of IBM policy adherence, as well as suggestions and recommendations related to the smooth running of the Radio Sub-Club. Roel - N3FJJ has added Shirley's name to Frank's (WA3YHE's) Newsletter distribution list, and we look forward to gaining the benefits of Shirley's extensive management experience within IBM.

There's an old saying among Radio Amateurs that goes something like: "There are no strangers in Amateur Radio: only friends who have not yet met!" Your current club president was pleased to have an eyeball meeting with the Club's most recent past president, Joe Handley - K3LLL at the Club's first meeting of the New Year. This is the time and place to thank Joe for his fine stewardship in the past; we look forward to calling upon him for advice in the future! No telling when Joe's vast network of ham friends within F.A.R. and A.R.R.L. may be of critical assistance. In another curious turn of fate, it came to light during the course of our conversation that both the past and current Club presidents had worked directly for Shirley Hayes at different points in their respective careers! Joe, by the way, recently retired after more than 31 years of full-time service with IBM.

Next month we anticipate being able to tell you more about the 1993 budget process and the IBM ARC's wish to re-start the incomplete antenna installation on the roof of the Main Site. This project was set aside in favor of necessary roof repairs several years ago. Working with Management Advisor, Shirley Hayes, we hope to gain management approval and work from there.

Erinn - N3HSA

### Dayton Hamvention April 23-25



Southwest Ohio Chapter #9 of the  
**Quarter Century Wireless Association**  
**announces its Annual QCWA Banquet**  
to be held on Friday evening, April 23  
(the first evening of the Dayton Hamvention).  
Neil's Heritage House. C.O.D. bar at 6:30 p.m.  
The banquet starts at 7:30  
Tickets \$16 each

**Speaker**  
**Gordon West - WB6NOA**

Come join the fun.  
Membership in QCWA is not required to attend.  
Advance Reservations are Required  
Make checks payable to Bob Dingle - KA4LAU  
Mail to  
1117 Big Hill Road, Kettering, OH  
Zip 45429-1201



# Digital Mid-Atlantic Radio Council

**Meetings:** Quarterly at Anne Arundel Radio Club and at Andrews AFB  
Secretary and board members to be elected at annual meeting (see next Auto-Call)

**Information:** George Stickler - KA3DXX @ KA3DXX - Secretary (410) 551-7657  
8249 Quarterfield Road, Severn, MD 21144

**UserGroup:** Maureen Mulrooney - N3JNE @ KA3RFE (410) 798-4204 in Davidsonville, MD

**TechHelp:** Dick Wareing - K3AKK @ WB3V (703) 524-1727 in Arlington - afternoon and evenings

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## How To Give Your Packet BBS SYSOP Ulcers

- 1) Never kill your mail. Let your read-but-not-killed messages accumulate on the BBS.
- 2) Assume (wrongly) that the sysop will kill your messages for you.
- 3) Never read or download the documentation for the BBS.
- 4) Don't pay any attention to your sysop's messages telling you how to best use the BBS and continue repeating your mistakes.
- 5) Assume (wrongly) that any message you enter in error will be corrected by the sysop.
- 6) Complain long-and-loud when the BBS goes down, but never, ever, offer any support for system upkeep...monetary or sweaty. (The majority of BBS systems and the node network are operated by individual hams, not clubs...and support for those systems usually is borne by the individual hams themselves with no help from the users...so, if you want to see the system stay healthy and grow, HELP OUT!)
- 7) Never learn how to correctly enter NTS traffic on a packet BBS. Send traffic any old way....in the right format or not...then bitch when the traffic never gets delivered at the end point because the traffic handlers can't figure out where it should go.
- 8) Send illegal bulletins. Eventually you will be caught and you and your sysop will get fined. Your sysop will not appreciate that and he will lock you out of the BBS, consider bombing your shack, and will be sorely tempted to put pins through your coax. This is known as the "WA3QNS EFFECT". (Named for the alleged author of the political packet bulletin that requested money via a "900" telephone number.)

## How To Annoy Other Packet Users

- 1) Conduct packet QSOs on Channel 0 of a ConverseNode and, when another user connects to see who is on the node and then disconnects, send "Well, I guess we're not good enough for him to talk to." QSOs should be on one of the other 254 channels, so that users may check to see who is on with some degree of anonymity.
- 2) Send a personal message or a bulletin using language that you wouldn't dare use face-to-face or on your local FM voice repeater where your friends could hear you. Bigots and boors should use the U.S. Mail for their invectives.
- 3) Operate with a TXDelay setting of 75 or 100, (.75 or 1.0 second). BBS and network node software often send packets to more than one station in a transmission. Your long acknowledging packet will "cover" one or more acknowledging packets of other stations and the node/BBS must resend the packet. TXDs should be at the default of 30 or less.
- 4) Request a NODES list from a networking node three or four node-hops away. Nodelists often contain 150 or more items and this consumes network time to transmit. Getting a NODES list from the local node and a ROUTES list from the distant node often gives more useful information.

## How To Have Fun With Packet

(Continued on the next page)



# Woodbridge Wireless, Inc

Meetings: 2nd Tuesday of each month, at 7:30 p.m., Canteberry Woods  
Repeater: WB4FQR/R 147.84/24 and 449.9/444.9  
WB4GJZ/R 223.18/78  
Nets: Mondays, 8:00 p.m. local (0100 UTC) 147.84/24, 223.18/224/78  
(the repeaters are linked for the net.)  
Wednesdays, Slow CW at 8:00 p.m., 21.164 MHz  
Saturdays 9:00 p.m. - in new 10 Meter Novice band 28.460 MHz SSB  
Mailing Address: P.O. Box 112, Woodbridge, VA 22194

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The Woodbridge Wireless, Inc. started 1993 with new officers. Elected at the November meeting were: President Jim Neff-WJ4M, VP Cliff Deel-KO4FM), Secretary Rick Sanford-KC4PYS, Treasurer Ed Bayne-N4LJZ, Activities Stan Sobkowicz-KQ4AX, Trustee Phil Poole-WB4FQR, and the board of directors, Stu Mitchell-WA0DYJ, Dale Carlson-WA2IKI and Jack Carwile-WD4KOF.

The club began another codeless Technician class on February sixth. The class runs 10 weeks and has about 10 students.

The Emergency Committee has been very busy. Club members will soon vote on an opportunity to obtain a vehicle to serve as a command center for club public service activities. Ed-KJ4VG) has been working with other members Jim-KD4IEA, Denis-WD4KXB, Stu-A0DYJ, Bob-K8MLM, Cliff-KO4FM, Mike-KA4RRU, Gerald and Jason-KQ4CR and KC4RFW, Jack-WB4NFS and Bill-WB4RMJ to renovate and refurbish the vehicle, a converted motor home.

Members donated antennas which were installed at the county building on Davis Ford Road. This site compliments the site at the

Potomac Hospital. Thanks to the efforts of Denis-WD4KXB and his committee, WWI is becoming an integral part of county emergency preparedness.

Congratulations to Mike-KA4RRU, for winning 1st place (for WWI) in the ARRL International DX contest in both CW and Phone. Mike has become one of the club's premier contesters. Congrats also to WWI VHF-ers who again won the 1992 ARRL September VHF QSO party Limited Multiop category, #1 in Virginia, in the Roanoke Division and in the U. S. They were #5 overall in all categories.

Diane-N4QWJ became chair of the newest WWI committee. She will head up the Humanitarian Committee. She'll keep track of the member's special events the club needs to observe. Diane reports that Dave-N4ELJ, Maria and Jennifer have welcomed Mary Ellen (a potential ham) who arrived December 19, 1992 weighing 8 pounds, 12 ounces.

That's it for now. Keep your grounds grounded good.

Jim - WJ4M

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## Digital Mid-Atlantic Radio Council - Continued

### HOW TO HAVE FUN WITH PACKET

- 1) Enjoy the packet system as it evolves over time. There is little that one can do to cause permanent harm. As with you TNC, there is no command that causes self-destruction.
- 2) Support the digital efforts of your local amateur organization and consider joining and contributing through the Digital Mid-Atlantic Radio Council. It is a member organization serving the entire digital community.
- 3) Ask questions. There are lots of helpful people out there in the digital world.

Pete-KA3RFE & Dick-K3AKK



# Northern Virginia FM Association, Inc.

**Meetings:** 3 times per year (fall, spring, winter)  
**Weekly Nets:** NVFMA Net: Every Wed., 8:00 PM local, 146.79  
ARES/Public Service Net, Every Sun., 9:00 p.m. local, 146.91  
On Air Equipment Clinic, First Wed. 7:30 p.m. local, 146.79  
**Repeaters:** 2-Meter: 146.79- (W4LBL-FFX City) & 146.91- (W4XG-Tysons Corner)  
440 Mhz: 444.75+ (K4JYF-Tysons Corner)  
220 Mhz: 224.50- (WB4YHD-FFX City & X-linked to 146.79)  
224.34- (KB4CVL-Tysons Corner)  
1292.1 MHz out / 1272.1 MHz in (K6LEW-Tysons Corner)  
**Membership Info:** Norm Rosenthal - KB4VLP, (703) 425-7108 or  
Margaret Lindsley - KB4IKU, (703) 818-8182  
**Mailing Address:** NVFMA, P.O. BOX 486, McLean VA 22101

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The NVFMA's annual business meeting and election of directors took place on January 21. Congratulations to the directors elected at this meeting: Rick - KB4NRU, Sam - KM4OI, and Bob - N4SCK. Their volunteer efforts, as well as the efforts of the past directors, are truly appreciated.

Mike Martin was the guest speaker at the meeting. Everyone enjoyed it and learned from his experiences in tracking down radio and television interference in the home. His "radio detective" work, often on the behalf of Amateur Radio operators, is important and interesting. He demonstrated some of the high tech tools of his trade which allow him to perform tasks in minutes that formerly took hours.

Tom - K4FHK and Margaret - KB4IKU have concluded their volunteer duties as co-secretaries to the Association. Their outstanding and precise work for many years in getting notices out to the members, preparing directories and keeping the membership database current are truly appreciated. They have been the lifeblood of the Association and have helped it to maintain stability and to thrive.

In January, the Burtonsville remote for the 146.91 repeater came back on line and it appears to be doing an outstanding job. Thanks to Bill - WA3UTY for assisting in the reinstallation of the remote receiver. Initial reports show that 91 now has effective 5-watt coverage from Baltimore to Fredericksburg through use of the remote receivers.

Dan - KC4OCG.

## National Capital ARES Council (NCAC) Meeting Saturday, March 6 - 10:00 a.m. 'till Noon

At Le Peep Restaurant 3922 Old Lee Hwy, Fairfax City, VA

Telephone (703) 273-7337

**Speaker: Al Taylor-KN3U**

"NDMS Emergency Communications in the Wake of Hurricane Andrew"  
A Slide Show will be Presented.

Everyone is invited. Talk-in on 146.91

For further information contact Dan - KC4OCG (703) 281-2358



# Summit Amateur Radio Association

Meetings: First Thursday of the month.  
Next Meeting: March 4th, 7:30 p.m. at the Bob's Big Boy on Merritt Blvd. in Dundalk, East side of Baltimore, Maryland.  
Address: S.A.R.A. , P.O.Box 18404 Baltimore, MD. 21237  
Repeaters: Club Owned; 224.64 MHz (WA3Z),  
Club affiliated: N3HIA 224.64 & 449.075 Mhz  
KS3L 224.68 Mhz., N3DRB 449.475 Mhz.  
Hamfests: Carroll County Hamfest & Computer Show - July 11

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Well, SARA has made its annual pilgrimage to the Richmond Hamfest, put on by the RATS gang. The crew consisted of KS3L, N3DRB, N3HIA, and KB3AHE. About 750 fliers for our Hamfest were handed out, and a good time was had by all.

This writer found an old timer selling QSL Cards from 1919 into the 60's, and bought several early examples from the 20's and 30's. Is it just me, or do QSL's from that era look better than the modern day ones do? If anyone out there has some OLD qsls that they don't want, pre WW-II drop N3DRB a line.

N3HIA and his wife, KA3YCV are expecting a harmonic on Labor Day of this year. Congrats to them both, and we hope that everything goes well.

Ron - WA3N, has again started work on the hi-power tube amp for the club repeater. A 1930 General Radio plate transformer was found gathering dust in the junkbox at MRC, was liberated, and delivered to the WA3N QTH. Sixty-three years later, if it passes muster, it will power the 64 repeater amp. Volts and Amps never die, they just get reused.

A number of the SARA gang are going to be fooling around with 6- and 2-meter AM Phone in the coming months, using gooneybirds (Gonsets), Heath rushboxes, and other fine

junk. Frequencies will be 50.4 and 144.70 - 90 Kc. for 6 and 2. The Metro club members in D.C. have been the stalwarts on 6 for many years, just maybe we can help get some more activity up here in Baltimore on these modes and work you guys in D.C.

Our 224.68 affiliated repeater is off the air until further notice due to equipment failure. The other club machines are up and running OK.

KA3UPR needs a manual and/or schematics for the Collins 30K-1 Transmitter and the 310-A Exciter unit. Help us get this piece of history back on the air. Call KA3UPR at 410-444-8484 or stop by the store at 36th and Falls Rd in Baltimore Thursdays or Fridays ONLY, if you can help or just want to see it. Quite impressive.

Idea: In your club's next newsletter, announce a "Best QSL" contest. Have the members send a QSL and include some in your club's newsletter. Vote on the best one, and the winner gets a something or other . . . use your imagination.

Next club outing will be at the Vienna Winterfest / Frostbite / Snow blizzard hamfest, look for our fliers to carpet the show.

T.H. West - N3DRB

## KENT ISLAND HAMFEST

May 1

The Kent Island ARC Club Hamfest will be held at Graysonville, MD on May 1.

Indoor tables available first come basis.

Admission \$4. No extra charge for tailgating.

YL's and harmonics FREE

Further information from K3ORC, WN3G, K3UBC, K3ZSB

Talk-in on 146.94 Repeater, 146.92 Simplex



# Springfield Estates Elementary School ARC

**Meetings:** First Friday of every month at 7:30 p.m., Springfield Estates Elementary School, Room 2, 6200 Charles Goff Drive, Springfield, VA  
**President:** Ben Mudrak - KD4CNV (703) 971-7710  
**Vice Pres:** Will Schmitt - KD4CNX (703) 768-5709  
**Secretary:** Luke Ward - KO4IQ (703) 922-6545  
**Treasurer:** Richelle Brown - KD4MFB (703) 690-0129  
**Mailing:** SEESARC, 6200 Charles Goff Drive, Springfield, VA 22150

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December and January are usually pretty slow months for most clubs, but SEESARC has had a lot going on and a lot planned. The SEESARC sponsored Novice class for our new members is continuing. We have already completed seven classes and still have about fifteen eager students studying hard to get their tickets in March.

Our most exciting equipment news is that a very generous Club member, Alan Bonner-K5VNJ, has donated two HF rigs to SEESARC - a Swan HF700, and a Kenwood 820S. Both of these rigs are in wonderful operating condition and are a welcome addition to the Club shack. We plan to put these rigs to the test in February when our Club participates in the 1993 School Club Roundup. Although we didn't work very hard in last year's Roundup, SEESARC did place fifth in the USA in the elementary school category! So this year we are going to go all out and hope to win the category. We will report our success in a later Auto-Call column. Many many thanks, Mr. Bonner, for your generosity and support.

SEESARC gladly and gratefully accepts all equipment donations - working or not (we have a talented technical advisor who loves to fix broken equipment)! The Club is currently in need of a TNC, color computer monitor (CGA), antenna tuners, SWR meters, high impedance dynamic station or handheld microphones, and HF antennas. But we will take anything and even have some items for swap. Think about our Club and a tax-deductible equipment donation before you decide to tailgate the next Hamfest. Contact any Club officer listed above if you have a generous urge and we will pick up your junk treasures. Don't be bashful - we aren't!

Our December Club meeting was well attended and was highlighted by an extremely informative and interesting talk on sunspots and their effects on the earth's weather by Dr.

Judith Lean, an expert and research physicist for the Space Science Division of the U.S. Naval Research Laboratory. Thank you Dr. Lean!

On January 17th, four club members attended the Richmond Frostfest. All had fun searching for things on their wish list and bargaining for junk. Once again the adage "One man's garbage is another man's gold" was confirmed. Plans are under way for some of us to descend on the Vienna Winterfest.

SEESARC is now pleased and fortunate to have it's own bulletin board conference. Dick Miller, WD4AZG and Sysop of the Dos Spitzen Sparken Board (703-791-6198), generously provided us with Conference Number Four on his bulletin board. Anyone is invited to log on to our conference. You can get information about the club, upcoming events and more, plus have access to the extensive library of ham-related software that Dick has available. Thank you very much Mr. Miller.

The club will participate in the Mount Vernon Amateur Radio Club's Special Event Station to commemorate George Washington's birthday and will operate from the grounds of the Mount Vernon Estate. It will be held on February the 20th and the 21st (See February QST page 110). SEESARC members are very excited about helping out and are grateful to MVARC for inviting us to participate.

SEESARC has been invited to make a presentation at the Dayton HamVention about our club's formation, activities, and educational programs. We plan to take a group of several members to participate in this event.

We would love to have guests present at our meetings. All are welcome, whether you are a ham or not. Give us a try and we think you will catch the ham "bug".

Will Schmitt - KD4CNX



# Laurel Amateur Radio Club

## A Volunteer Examiner Coordinator

Meetings:	4th Wednesday of each month (except November & December) 8:00 p.m. at Harrison-Beard Building on corner of 9th and Montgomery, Laurel, Maryland.
Social:	2nd Wednesday of each month except December. (Call for directions.)
Nets:	1st & 3rd & 5th Wednesdays, 8:30 p.m. on 147.225 +600, no tones.
Mail:	P.O. Box 3039, Laurel, MD 20709-0039
Exams:	3rd Saturday of each month, 10:00 a.m. at Maryland Radio Center.
Information:	Jim - WI3N (301) 725-6829 or Pud - W3DQI at (301) 498-6293

Thanks to George - WD3W and YF Donna - N3HYF, the annual Holiday Banquet was judged by all to be a fantastic success. Over 50 members and spouses enjoyed the excellent seafood and steak dishes prepared by the Bay & Surf Restaurant on Route 1 in Laurel. Besides the good food and fellowship, the other highlight of the evening was our guest speaker, IJ Hudson - K9ICF of Channel 4 News. We were pleased to have IJ and his wife join us and we appreciated his mixture of personal anecdotes and technical information vis a vis the direction of news gathering in the future.

Our second Wednesday social at The Irish Pizza Pub on Rt 197 consistently finds up to 16 members and some spouses getting acquainted and even talking about things other than ham radio.

The regular 4th Wednesday business meeting met for the last time in the Harrison-Beard Building in January. It will be relocating to the Laurel Armory, Murphy, Anderson Community Center on the corner of 5th and Montgomery Streets in the conference room downstairs. The city closed the Harrison-Beard Building indefinitely for safety reasons.

Our January guest speaker was our own Kevin - W3DAD, who demonstrated the Digital Signal Processor he built from a QST article. Great demo, Kevin. The following Saturday about 14 members showed up to take down our TH-6 beam and other assorted antennas on the roof. We may set up a station in our new temporary facility. It is hoped that we will move into more permanent quarters in the new City Hall this fall.

Our speaker for the February business meeting will be Heru Walmsley - W3WVV, who, among all his other activities, fields technical questions on a Baltimore repeater on Saturdays.

In March we will be looking at direction finding antennas with the hope that we'll spark some interest in a hidden transmitter hunt.

Our first public service event will be the DC Roadrunners Marathon through the Beltsville Agricultural Center on February 14. May 2 is the Montpelier Festival where we provided communications and also set up an operating HF station to promote Amateur Radio.

May 8 is the Main Street Festival in Laurel, which draws upwards of 100,000 people and is one of our major public service ventures. Another major event we help with is the Pallotti Invitational Cross Country Track Meet in September, which has 800+ young people running three-mile cross country races.

If public service is your thing, LARC has from six to eight different events per year. If you would like to help with giving exams, we can show you the way to get involved, even if you're not an Extra Class license holder. Field Day is another fun event with plenty of operating time available and good food with our usual pot luck dinner.

We try to keep our business meetings to the point so we have plenty of time for our guest speaker. We're not all things to all people, but we try to provide a broad range of activities for our diverse membership. If you'd like to know more about us, please give me a call.

Jim - WI3N





# AMSAT NA

## Radio Amateur Satellite Corporation

Meetings: Semi-annual - January and July  
Local Net: Sunday at 9:00 p.m. on 146.835 MHz FM, W3ZM/R, Greenbelt, MD  
Information: Pat Kilroy - WD8LAQ (301) 249-3396 or on packet WD8LAQ @ WB3V.MD

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### KA1LM Wins Award.

Steve Greene - KA1LM of Herndon, VA won the award for Best Exhibit at the local AMSAT meeting held at the NASA Goddard Space Flight Center Visitor Center on January 17. Steve impressed the most attendees with his fully functioning portable OSCAR-13 station which included an antenna array mounted on a children's type little red wagon.

This "show 'n' tell" (and learn) gathering of MD/DC/NoVA Area satellite enthusiasts featured several other exciting exhibits as well. Steve Todd - K2IYQ demonstrated some of his home-brewed equipment, namely an S-Band dish and a 9600 baud packet radio modem. Walt Daniel - N3KVQ displayed on-screen images from space using a Macintosh computer. Frank Bauer - KA3HDO illustrated coming SAREX (Shuttle Amateur Radio Experiment) opportunities. Bob Bruninga - WB4APR set up a live Global Positioning System demonstration and explained how GPS works. Geoff Chester of the National Air & Space Smithsonian Museum describe the OSCAR-OMEGA Space Telescope proposal sponsored by the Albert Einstein Planetarium. Joe Kasser - G3ZCZ/W3 had lots of information on operating packet radio. Jack Colson - W3TMZ showed construction details to his small diameter S-Band dish antenna and his GaAs FET preamplifier.

### AMSAT1.

During the opening portion of our meeting I described "AMSAT1". AMSAT1 is a new packet radio personal mail distribution service provided by Bill Howard's WB3V PBBS. The "SPREAD Server", as designed by Doug - N2GTE, allows a packet operator to send an identical personal message to each of the 40-plus local AMSAT participants by composing and sending but one message of interest or inquiry. The SPREAD Server explodes the message against the AMSAT1 distribution list that I maintain. Beforehand, one would either have to address 40 personal messages himself or settle for broadcasting a bulletin that few may find and read.

If you would like to get on AMSAT1 then send me a business size S.A.S.E. to my callbook address. Include two units of postage. I will send you a local AMSAT survey sheet, some AMSAT1 instructions, and some additional information related to radio amateur satellite local activities. There are no dues to participate with this "grass roots" group, but we do accept donations of envelopes (#10 size) and postage stamps for our semiannual meeting notices.

### HRG Holds Beginner's Forum.

A highly successful satellite beginner's forum and technical seminar was held on January 31 in Sterling, VA. The event was sponsored by the Herndon Repeater Group (HRG) with support from AMSAT-NA Headquarters. The topics included "What Are the Amateur Satellites?", "What Can I Do With Them?", "What Equipment Is Needed?", "How Simple Can I Start?", and "Where Do I Go for More Information, Help, Assistance, and Elmering?". Club seminars of this type are popping up all over. Be sure to contact AMSAT Headquarters (301-589-6062) for help to pull off such an activity for YOUR club!

**Next Meeting.** We will hold a "splinter" AMSAT meeting on Sunday, March 21, in Annapolis at the Naval Academy. Bob Bruninga - WB4APR will act as host. This one is guaranteed to be the best gathering to date! We will meet at 1:00 p.m. to operate the large parabolic dish antenna that was used to uplink the first-ever television program received onboard a Space Shuttle and then to move on to several other fun activities as well. All are invited! Talk-in will be on the 146.805 MHz Millersville repeater and 144.93 simplex. For further details you may reach Bob on packet WB4APR @ N3ET1.MD or by telephone at either (H) 410-553-6021 between 7 & 11 p.m. or (W) 410-267-4380.

**The Local Net.** Don't forget to check in to our weekly net on two-meter FM each Sunday evening. All are invited!

Pat Kilroy - WD8LAQ



# Central Maryland Amateur Radio Club

Meetings: Fourth Friday of every month at 7:30 p.m.  
New Carrollton Municipal Building, 6016 Princess Garden Parkway,  
New Carrollton, MD 20784

Repeater: 145.230 MHz

Nets: CW Code Practice, every Monday night at 9:00 p.m.  
Voice, every Tuesday night at 9:30 p.m.  
RTTY, every Wednesday night at 9:30 p.m.

Information: Darrell DeHaven - N3IBO (301) 577-2992

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The Central Maryland Amateur Radio Club (formerly the New Carrollton Amateur Radio Society) brought to a close another exciting year and now looks forward with great anticipation to a prosperous 1993.

In 1992, we changed our club name to reflect more accurately the community we serve. We experienced an increase in membership and congratulated a number of individuals for receiving their ham tickets. Activities of the year included participation in the "Christmas In April" program, the provisions of emergency communications for the Mt. Rainier Day Parade, and among the most exciting was our communications for the annual Labor Day Parade. As well, we had the honor of winning First Place for the best decorated booth at the carnival grounds. We set up a "Ham Shack" and sold ham sandwiches to hungry carnival attendants

while at the same time promoting Amateur Radio. We tremendously enjoyed the experience and look forward with great anticipation to being involved again this year.

Also, in 1992 we voted in a new slate of officers. Elected to office were:

President: Bob Shaffer - N3CJ  
Vice Pres: Tony Fominaya - N3JWT  
Secretary: Darrell DeHaven - N3IBO  
Treasurer: Ed Mumford - N3IRO  
Rptr Trustee: Mike Dees - N3EZD

We are excited about our new CW Code Practice Net on Monday nights at 9:00 p.m., under the direction of Ed Mumford - N3IBO. If you are free, come and join us. All are welcome.

Darrell DeHaven - N3IBO

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## WAYLARC Washington Area Young Ladies Radio Club

Next Meeting: Saturday February 27, Noon. Rip's Country Inn, Bowie, MD  
Greenbelt Marriott, Greenbelt, Maryland

Contact: Irene Akers - W3RXJ (301) 423-7138, Temple Hills, MD  
Vikki Gigante - KA3PVS (301) 249-2609, Bowie, MD

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YLS Unite! Those were the words QST wrote in 1940 to herald the birth of YLRL. Well, we are using those words again now to welcome the re-birth of the WAYLARCS.

YLS in the Washington Area are getting together on the air every Monday evening and have scheduled quarterly luncheon meetings throughout the year, and Volume 1, Issue 1 of the WAYLARC Newsletter has just been circulated. The latest count showed 36 dues-paid members - including some hams-to-be and several OMs. If you haven't joined already, listen in on 147.180+ at 7:30 p.m. any Monday. You will find an enthusiastic group eager to welcome you.

The next luncheon will be held on March 27, at Rips Country Inn in Bowie, Maryland. We are hoping Auto-Call will be delivered early enough to remind you of the meeting but it may be a little late for luncheon reservations. It might be worth a phone call, though. Call Vikki at (301) 249-2609 or Pat at (301) 927-5537. We hope they can squeeze you in. C U there.



# Arlington Amateur Radio Club

Meetings: Third Tuesday of each month at 7:30 p.m.  
Arlington Red Cross Chapter House, 4333 Arlington Blvd. (Rte. 50)  
Net: Tuesdays (except meeting nights) at 7:30 p.m. on 144.87/145.47 MHz FM  
Info: Mike Callaham - NW3V (703) 241-5618

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## The January Meeting:

Just minutes before the January 19th meeting, Mike - NW3V utilized the club station W4WVP to communicate VIA SATELLITE with Joe AB4RA through the Cosmos satellite RS-12 which reached a maximum elevation of 45° above the horizon at a closest range of 1299 kilometers. The pass lasted for about 15 minutes and employed mode K, 15-meters up and 10-meters down. The club's HyGain TH-5 five-element beam was used for transmitting, and a dipole served as the receiving antenna. Anyone interested in predicting satellite passes may download the program "VIEWSAT" from the Arlington Club section Joe's telephone BBS at 243-0024 (2400 BPS N8I).

Mike announced the new officers for 1993 as:

President: Mike Callaham - NW3V  
Vice Pres: Dennis Bodson - W4PWF  
Secretary: Craig Church - N4EFJ  
Treasurer: Tom Crabe - W4LMW

The sixteen persons present for the meeting were reminded that a program chairman had not yet been selected. There were no volunteers for the job so Mike solicited Charles - KD4NEM, who agreed to try his hand. Charles was then nominated and voted in unanimously.

Under other business Dennis (W4PWF) mentioned that the ARRL was contemplating petitioning the FCC to permit the use of automatic digital forwarding communications (packet) in various segments of the HF ham bands and that a one megahertz section of the 220 MHz band which had previously been taken from hams for use by United Parcel Service might be returned to Amateur Service.

The program for the January meeting was a demonstration of packet radio by Mike - NW3V, using a PacComm BayMod-9 modem and BayCom 1.50a terminal software. Mike showed how to read and send bulletins and personal messages, download programs and other files from packet bulletin-board systems (PBBSs) and access local "QTH servers" on packet radio to look up the QTHs of US and DX stations.

The latter capability obviates the need for callbooks and, by itself, may pay for the modem and software in one year.

## The March Meeting:

The program for the March 16th meeting of the Arlington ARC will be a discussion of the Amateur Radio Emergency Service (ARES), and particularly of the Arlington ARES by Chuck Rexroad - N4HCP. Chuck is the Emergency Coordinator for Arlington ARES and his primary roll, historically, has been support of the Arlington Chapter of the American Red Cross and, through the Red Cross, support of the Arlington County government. Chuck intends to have ARES registration forms available at the meeting for those who choose to sign up.

## April Meeting:

Dennis - W4PWF reports that Bill Leavitt - W3AZ will speak to the club about Amateur EME (Earth-Moon-Earth) communications at a future meeting - probably in April.

A 2-meter fox hunt has been proposed as a warm weather activity if enough interest is shown. This high tech hide-and-seek exercise comprises a volunteer (the fox) placing a portable or mobile transmitter in a disguised and undisclosed location and transmitting periodically while the other participants (the hounds) employ a variety of radio direction finding paraphernalia, including small beams or quads and signal attenuators, to track down the fox. The rules of play may restrict the location to a spot inside the Virginia portion of the capital beltway and may require that the location of the transmitting antenna remain unchanged. The first hound to sniff out the hidden transmitter earns the right to be the fox during the next hunt, and the exercise may be followed by a picnic. Although this sport is a lot of fun, it also develops technical skills that can be utilized to ferret out sources of interference whether they be intentional or accidental.

Craig - K4EFJ



# Green Mountain Repeater Association, Inc.

Meetings:	Board of Directors / Control Operators, Last Monday each month.
Luncheon:	First Saturday each month, 11:30 a.m. at Fountain Cafe, Laurel Shopping Center Mall, U.S. Rt 1 (Baltimore Avenue) and Cherry Lane.
Repeaters:	KD3VR - 146.61 (Cheverly) and K3GXF - 146.88 (Greenbelt)
Mailing:	GMRA, P.O. Box 429, Riverdale, Maryland 20737
Information:	Boyd Nelson - KZ3Z (301) 434-0934

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The Green Mountain Repeater Association held its annual meeting on January 10. Considering the weather prior to the meeting, there was still a good representation of officers and members.

Several suggestions were proposed for the continued growth of the Association. It was suggested that GMRA could be activated to become an Amateur Radio Club with regular meeting at a designated building. As of now, the members are encouraged to meet at the Fountain Cafe in the Laurel Shopping Mall on the first Saturday of each month. This is a sort of social gathering over lunch. Joe Nunemaker - KD3VR expressed the desire to teach classes in radio/electronics for prospective new licensees and for those who would like to upgrade.

An idea was also expressed for the possibility of putting out a newsletter to keep members closer in touch with group activities. Due to the growing size of the membership and the many talents that lie within, this seems to be very exciting. Don't you think so? Let's have some input, if you will.

Following is a list of the current GMRA Board of Directors:

President:	Joe Nunemaker - KD3VR	(301) 577-3749
1st V.P.:	Paul Freirich - W3HFA	(301) 593-7205
2nd V.P.:	Carey David - N3GYB	(301) 474-5953
Secretary:	C.T. David - K3GXF	(301) 577-5796
Treasurer:	Boyd Nelson - KZ3Z	(301) 434-0934

Ken Easton - N3HLY

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## Talk Up Ham Radio

As much as we think we talk about Amateur Radio, it still seems to remain a best kept secret as far as the general public is concerned. When TV and radio programs report relief efforts at major disasters, everybody but the dog catcher gets credit for his work. That is, everybody but the Amateur Radio Operators. Getting a story about Amateur Radio into major media seems to be a major problem. How do we tell the public about the really great work that Amateurs are doing?

A letter from Steve Mansfield - N1MZA at ARRL Headquarters appeared in the March issue of Worldradio Magazine. His letter reminds us that ARRL has built a program that draws on the ability and connections of hams around the country to place favorable stories in the local news media about Amateur Radio. The material is available for the asking. Steve went on to say, "If we don't actively promote and protect our image .... the FCC and Congress won't be so willing to protect Amateur Radio frequencies, and we'll begin to see them disappear."

Armond Noble - N6WR (Editor of Worldradio) commented that the 7,000 weekly and community newspapers throughout the country have a total circulation of about 64 million households, and they are more inclined to present the local human interest stories of the neighborhood. Take advantage of these opportunities. Let's "Talk Up Ham Radio." But keep in mind that the stories should consider the public relations impact. It's a good idea to check them out with your club or ARRL officials before you send them in. -- K4LMB Editorial--



# Herndon Repeater Group

Meetings: On-the-air meetings every Monday at 9:00 p.m.  
Repeater: N4FSC/R 144.71/145.31 MHz  
Packet BBS: 145.03 MHz (BBSHRG)  
Mailing: Herndon Repeater Group, P.O. Box 5073, Herndon, VA 22070  
Training: Michael Weber - WB8RDN (703) 450-2304  
Information: Michael Rosati - N4FXP (703) 481-8380

**Technical Seminars:** The next HRG Technical Seminar is scheduled for Sunday, March 21 from 1:00 to 4:00 p.m. and the topic will be Digital Communications, hosted by John - WA9FCJ and Terry - AB4UM. The seminar will be held at the Eastern Loudoun Regional Library in Sterling (Cascades) and is open to all. Listen to the weekly HRG Net for more details.

The January 31 Amateur Satellite seminar was hosted by Steve Greene-KA1LM. Thirty people attended and learned all about this exotic mode. Thanks to Steve for volunteering his time.

**General Class Course:** There has been a minor date change for the upcoming HRG General Class. The course will now begin on April 3 and run until May 8. All sessions will be held on Saturday mornings from 9:00 a.m. to 12:30 p.m. The class will be limited to 20 students to ensure the correct Instructor/Student ratio. The course will be held at the Trinity Presbyterian Church in Herndon. For more details or to register, contact Mike - WB8RDN.

**Exams:** HRG held an ARRL/VEC exam session on February 6 at the Herndon High School (HHS). Details will be listed in the next Auto-Call. The next HRG exam session will be May 15, also at HHS. Future sessions are being planned for August 28 and November 20.

**Demo:** An Amateur Radio display was provided by HRG at the "Older Girl Conference" sponsored by the National Capital Area Girl Scout Council on February 6. For the second year in a row, the Council invited HRG to set up an indoor "Field Day" type display at the Wakefield High School in Arlington. The effort was led by Tom - WB8ZRP with assistance from Dave - KO4MI, Steve - KA1LM and other HRG members. Thanks to all who participated in allowing the 500 Girl Scouts a first time view of Amateur Radio. Many made HF AND VHF contacts during the demonstration.

**Packet:** BBSHRG Sysop Bill - N4WJN reports that the BBS recently passed the 20,000 message mark. Contact N4WJN with any packet related questions on 145.03 MHz. (Connect to OVH then connect to BBSHRG). Jack - N4ULS reports that the VNA node (145.03) will move to a high building location in the Reston area in a few weeks. The node alias will change from NVA to "RESTON."

**Net:** Join us for the HRG Net meeting, held every Monday evening at 9:00 p.m. on the Herndon 145.31 MHz repeater. HRG members are encouraged to volunteer to be Net Control from time to time.

**New Call Sign:** Congratulations to Mark Torok on obtaining the callsign KD4WBD.

Mike - WB8RDN

## What is Amateur Radio?

Amateur Radio, also known as "ham radio," is communicating. Hams, who must be licensed by their governments, operate two-way equipment from their homes and cars. They communicate with other hams across town or across the world on special sets of radio frequencies, or bands, that are set aside for Amateur Radio use.

## Who are hams?

Just about anyone can be a ham—there are no age limits. Many people with disabilities find a door to the world in Amateur Radio. Some famous people are hams, but most are just people from all walks of life who like making new friends around the world.

## How can I become a ham?

Getting a ham radio license is easier than you may think. In the US, the Novice (beginner's) license requires only passing a 30-question written exam on basic electronic theory and FCC rules and regulations, along with copying and sending Morse code at five words per minute. The new codeless

Technician class license requires passing two written tests with a total of 55 questions.

The American Radio Relay League (ARRL) offers a wide variety of information for persons interested in radio communication. We can also provide you with a list of clubs and instructors in your area. Many local Amateur Radio clubs offer licensing courses several times a year.



For a prospective ham packet, contact the  
ARRL, Dept Q, 225 Main St, Newington, CT 06111, tel 203-666-1541.



# Metropolitan Communications Network

Representing Six Meters in the Greater National Capital Area

Meetings: Quarterly, on the second Sunday of the month.  
Time and place to be announced.  
Repeater: N3AGB/R, 52.250 MHz in; 53.250 MHz out.  
Accessible on 147.36 MHz and 444.35.  
On-the-air: Saturdays at 1900 hours EDT  
Mailing: Bob Sporn - WA3GGO, 9927 Cottrell Tr, Silver Spring, MD 20903  
Information: Bob Sporn - WA3GGO (301) 434-1719

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As of this writing, some of the satellites have been undergoing modifications. Hopefully, by the time this issue appear, all will be operating.

THE SUNDAY MORNING COFFEE NET (50.4) MHz at 0900 Hours. In the 1930's, locally we had a net on 5-meters. Later, on 6-meters, this net met every Sunday under various names, including "The Rebel Net," Yankee Net," under the late Gus Ferguson's (WA3FVB) engaging directions, as "The Husbands' Protective Association," and finally as the "Sunday Morning Coffee Net." Every participant received a card from Gus, making him a Vice-President. Yours truly was No. 37, Vice President in charge of Trivia." Sherwood Clark - K3DLH, George J. Diering III - N3FNF and Stanley Brigham - W3TFA check in regularly, in spite of their busy ham activities on other frequencies. Stan, besides working satellites and building most of his own gear, has worked all of what had been Czechoslovakia, except Bosnia.

MARYLAND FREE STATE SIX METER SIDEBAND NET (50.125 MHz) Sundays at 2000 Hours  
Unlike the "Coffee Net," this net enjoys participants from outside the Greater Washington Metropolitan Area. Join us anytime.

Bob - WA3GGO

## YORK SPRINGFEST

March 14

York, Pennsylvania

The 6th Annual York Springfest (Ham & Computer Fest)  
Will be held on Sunday, March 14 at the York Fairgrounds.  
Indoor tables and blacktop tailgating, food and refreshments.  
Inside tables \$15 & \$20, Tailgating \$5 per space

Admission \$4

Age 12 and under and unlicensed spouse free.

ARRL VE Exams - 8:00 a.m.

Talk-in on 146.37/97 and 447.275.

Advanced info and registration call (717) 843-7864

Or write: York Springfest, P.O. Box 526, Red Lion, PA 17356

**Note:** The York Springfest has been moved to the Old Main Building at the York Fairgrounds York, Pennsylvania. More inside table space & larger blacktop tailgating area.  
Easy access from I 83 or Rt 30.



# AMRAD

## Amateur Radio Research and Development Corp

**Meetings:** Second Thursday of each month, Fairfax County Library, McLean, Virginia  
**Repeater:** WD4IWG 147.81 MHz in, 147.21 MHz out. Director, Jeff Brennan - WB4WLW  
WD4IWG is an open repeater for FM voice and digital communications, especially for experimental modes. Autopatch available to members.  
**Data Address:** Our internet address is lkestel@csugrad.cs.vt.edu.  
**AMRAD CBBS:** (703) 734-1387 Operated by Lawrence Kesteloot - N4NTL  
E-Mail address is lkestel@csugrad.cs.vt.edu  
**Information:** Andre Kesteloot - N4ICK (703) 356-5519 or Terry Fox - WB4JFI (703) 698-7612

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The January meeting featured a talk on PACTOR and CLOVER by Larry Walker-K4LLQ. The February meeting consisted of a presentation on digital audio direct broadcast systems by Mr. Edward Reinhart. Sandy-WB5MMB and Dave-N4JGQ gave a talk and demonstration on 10-GHz activity at the February meeting of the Southern Maryland Amateur Radio Club.

### Current and Up-Coming Activities:

Six AMRAD members (WB5MMB, KA0ESA, N4ICK, N4TPY, WB3KDU, N4JGQ) braved the cold and their sanity for some 10-GHz mountain-topping on 17th January. One team on Reddish Knob dealt with 10-15 degree wind-chill; another roving team worked in the Linden area, and the third team was set up at Tyson's Corner.

Between the cold and wind moving dishes, there was a decided lack of success on the long path between Reddish Knob and Tyson's Corner; the roving team did establish contact with the Tyson's team. We shall try again some time in March when the weather is a little more agreeable. AMRAD members continue evaluation for modification of some donated digital radio equipment for a network in the 900-MHz band. Interest continues in DSP, spread spectrum, and microwave activity.

We continue to meet Saturdays at 1230 hrs. at Taco Rio Grande in Vienna; our monthly meetings (technical talks) are the 2nd Thursday of the month, at the McLean Dolly Madison Library. Everyone is welcome! Talk-in on the AMRAD repeater.

Dave - N4JGQ

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## Isn't Ham Radio Wonderful?

You have probably heard the story about the YF who left the house without her keys and couldn't rouse her husband to let her back in. It seems Jim was working DX and he wasn't about to interrupt it to answer the door for anyone. In desperation, the YF went to a neighboring ham - who knew Jim's operating habits. He succeeded in relaying a message through a ZS, telling Jim to please open his front door and let his wife back in. Ah, the miracles of Amateur Radio. (We have no record of the conversation between the YF and OM after she got back in!)

Now here is a new one from the March issue of Worldradio. The other evening a 7 was operating 20-meter mobile in Oregon. He was trying to find some small town that wasn't shown on his map and he was lost. Finally a ZL came on the frequency and suggested he might help (from New Zealand!!) The ZL explained that he had a very detailed map of the area in Oregon and proceeded to furnish the necessary directions to the mobile station to take him directly to his destination.

Do you have any stories to top these? Maybe we could start a Believe It or Not column in Auto-Call. We would want some documentation on the stories. Let us hear from you.



# Maryland Emergency Phone Net

Meetings: Every night, 3920 kHz, 1800 local time (All are welcome)  
Net Manager: George Korper - WD3W  
Secretary: Jim Mc Coy - N3EI  
Treasurer: Rino Masso - KC3ZJ  
Directors: WA3YLO, K3ONU, KD3JK, W3DQI (Alternate)  
FAR Reps: KC3ZJ and WA3FYZ

The MEPN welcomes Al Brown - WA3FYZ to the masthead of this article as the second FAR representative for our club. Al is an active ham in our area, and his participation in the Foundation will be appreciated by FAR in general and MEPN in particular.

Speaking of reps, the MEPN will be electing a net manager and net director in March, so for those interested, start soliciting your votes or your candidates and make your interests known on the net.

On a recent return trip from a West Coast TDY, I was reading the Field Organization Reports in February QST, and was pleasantly surprised at how many MEPN callsigns I recognized. In the Public Service Honor Roll: N3EMD, KC3Y (W1PEX), W3YVQ!, KA3WWI!, WJ3K!, K2EB!, N3EGF, and KJ3E (who? where you been, AL?) In the Brass Pounders League we register some familiar calls to those regular traffic handlers: W3CUL, W1PEX, AND K4DOR. If I missed

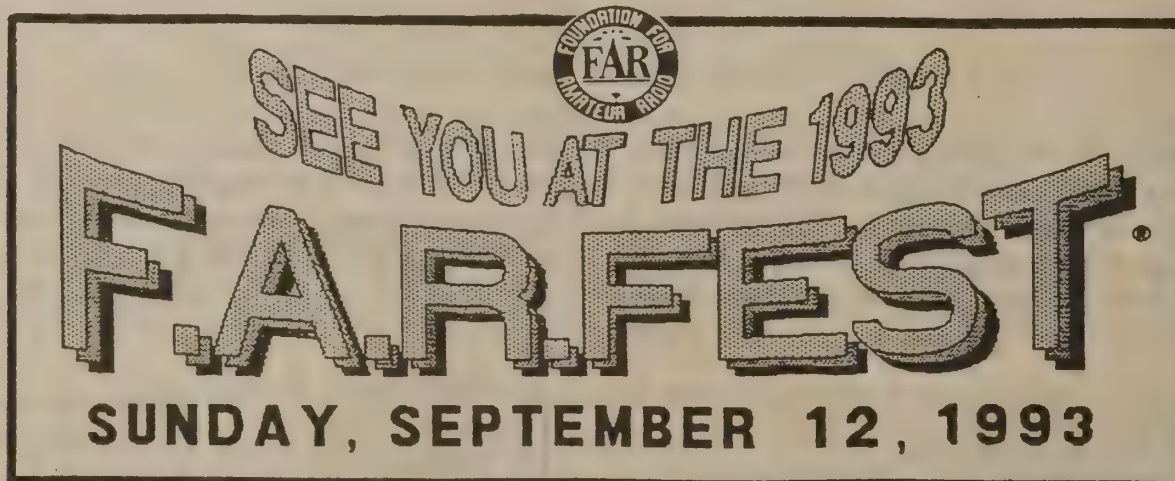
some, I apologize, but those long cross-country trips are rough.

The first three HAMGRAMS I receive answering the following question will be given credit in my next Auto-Call column: Which term does NOT belong in this sequence, and why? CW, EME, FM, SSB. If I continue this feature, I can promise they will get harder.

Finally, some tidbits from the net. WA3WRT prefers to be called ALAN, vice AL. Reminds me of the Auto-Call article from W3SWD who uses DAN on CW but prefers HENSH on phone. Welcome back to K3ORW as Saturday NCS. Jim lives in Taney (pronounced TAWNey) Town. And, of course, K2EB - Bob Bradt (as in BROTverst, I think). And, last but not least, we have WA3YLO - Tony YOUNG, the net's oxymoron.

With apologies for the above, I hope to see you ON THE NET.

Pud - W3DQI



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## SHACK SALES

Noncommercial advertising of Amateur associated equipment is available to subscribers of AUTO-CALL at a rate of 3¢ per word -- with a \$1 minimum. Commercial vendors and nonsubscriber rate is 17¢ per word - with a \$5.50 (1 inch) minimum. Special headings or special spacing (e.g. one item per line) may be used but such ads will be charged at the column inch rate. Estate sales for Widows Assistance handled by a FAR club will be published without cost.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone and all ads must be pre-paid. Since no effort is made to investigate advertisers, no warranty can be implied.

Copy must be received by the 5th of the month preceding publication.

### WIDOW'S ASSISTANCE PROGRAM

#### Estate of Bob Moore - N3CKD

Kenwood TS-440S Transceiver with automatic tuner. Mint condition, box . . . . . \$850  
 Kenwood TH-26AT 2-meter handheld (2 units) Mint condition, original box . . . . . @ \$175  
 Kenwood TM-241A 2-meter mobile. Mint condition, original box . . . . . \$250  
 IXOM IC-2AT 2-meter handheld. Old. With three batteries (not tested) speaker-mike and desk charger. . . . . \$100  
 Dentron 300 watt Super Tuner antenna tuner. Not in box, but looks all right . . . . . \$75  
 Daiwa CN-620 cross-needle pwr/swr Mtr \$100  
 Astron 12-volt, 35 amp power supply . \$100  
 Kenwood SMC-33 speaker mike . . . . . \$30  
 Kenwood BT-6 dry cell battery case . . . \$10  
 Welz CT-300 dummy load. In box . . . . \$30  
 AEA CK-2 contester keyer . . . . . \$50  
 Small Micronta analog VOM . . . . . \$10  
 Cheap Swan SWR bridge . . . . . \$10  
 Makings for a G5RV antenna . . . . . \$20  
 HF spider type mobile antenna . . . . . \$60  
 Larson 5/8 wave 2-meter mag mount ant. \$30  
 Several more mobile antennas, mag mounts, Speakers, power supplies, tools. All equipment is sold AS IS. No warranty. Call Henry - W3BWN (301) 474-7376 (H), Greenbelt, Md (03)

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### WIDOWS' ASSISTANCE PROGRAM

#### Estate of Ed Daugherty - W3WN

Kenwood TS-530S Transceiver  
 Kenwood TS-700A with Janel preamp.  
 Kenwood TS-780 with Advance Receiver Research preamp.  
 Yaesu FT-727U with two battery packs  
 Mirage B1016 2-meter Amplifier  
 Astron RS35A power supply  
 Clegg PS12A power supply  
 Astron R20A power supply  
 MFJ Versatuner  
 HeathKit Dummy Load  
 Hammerlund HQ-129X Receiver  
 Midland 13505 Xtal controlled 2-meter rig  
 BIRD Model 23 Watt meter with slugs.  
 Most equipment was in use and is with manuals and mike.  
 ARRL Handbooks from 1930 to date  
 QST from 1928 to date  
 Many old time radio magazines and books.  
 Contact Bernhard "Bernie" Cohen - W3CAO at (301) 696-6271 (days) or (301) 271-2714 at night. Thurmont, Maryland (03)

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Craig Stull-KD6CRD Phone (703) 620-0494, Herndon, Virginia (03)

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Jim Bull-N3IDU, (301) 843-1210 Waldorf, Maryland (04)

**FOR SALE:** Complete 2-meter Station  
ICOM IC228H 2-meter Transceiver .. \$215  
Astron 35M Power Supply ..... \$80  
MFJ Versa Tuner ..... \$25  
10-Meter Antenna, with mount ..... \$10  
Everything is like new and was used very little. Call Mike - KC4YMK (703) 241-7787, Arlington, Virginia (03)

**FOR SALE:** KENWOOD Dual-Bander TM-732A (Spotless, Mint and used 2 months) with KENWOOD PG-4L (Front Panel break-away kit, with long cable). Second speaker KENWOOD SP-41. All with boxes and manual.  
Package price ..... \$575  
CUSHCRAFT R-5 Antenna. Like new .. \$150  
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Phone (301) 773-9383 or 773-5074  
(06)

**FOR SALE:** Miscellaneous Ham Equipment  
KENWOOD TS-520-S Xcvr, w/mike .. \$425  
YAESU FT-401-B Xcvr (needs work) ... \$80  
Military Receiver R-174/FRR  
BC to 50 MHz ..... \$125  
HALLICRAFTERS Receiver  
152-174 MHz [CRX-2] ..... \$60  
Lafayette Model PF-300 FM Monitor  
30-50, 144-174 & 450-470 MHz ... \$65  
RF Signal Generator - Ferris 18-C  
5-150 MHz ..... \$125  
KENWOOD SMC-25 Speaker, Mike .... \$30  
HP Test Oscillator. To 10 MHz ..... \$60  
MFJ 1224 Computer Interface ..... \$75  
RF-VTVM GR-1800-A ..... \$45  
RF-VTVM GR 726A ..... \$30  
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Call Les - WA3NGF (301) 864-3892, Riverdale, Maryland (04)

**FOR SALE:** COLLINS Equipment - KWM-2 with Noise Blanker 136B-2 and Water's speech processor. AC Power Supply 516F-2, VFO Console 312B-5, Mobile Power Supply MP-1, Mobile Mount 315D-2, Microphone SM-2, Mobile Microphone MM-1, and Instruction Books on all equipment (no modifications). Price negotiable. Hersh Miller - W3SWD (301) 927-5837, Hyattsville, MD (05)

**FOR SALE:** KENWOOD TS-830S HF Transceiver Like new condition. Covers from 160 to 10-meters, including the WARC Bands \$650  
KENWOOD AT-200 Antenna Tuner .. \$125  
ASTATIC D-104 Microphone, "new," black type with push-to-talk, plus press bar .. \$75  
Will trade TS-830S and AT-200 for Collins Equipment. Harry Kaklikian - W4ACN, (703) 978-4402, Annandale, VA (05)

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Ten-Tec Equipment Line, Collins, Hallicrafters, Hy-Gain, Tonto. All in excellent condition.

PARAGON Transceiver, all accessories \$1,300

TEN-TEC 238 KW Tuner, new . . . . . \$250

CENTURION KW+ Amplifier, like new \$1,300

CL-33 Tribander, excellent condition, CD-45

Rotor, wire, Roof Tower, all for . . . . . \$400

COLLINS KWM-2-A with all crystals, excellent

condition, manuals, mic, Power Supply \$550

HALLICRAFTERS SX-28, Excellent cond. \$95

TONTO EXL-5000-E AMTOR/RTTY/CW screen

keyboard like new . . . . . \$200

MFJ Keyer . . . . . \$15

KW Roller Tuner . . . . . \$100

Lots of coax. Mark-WX3H (703) 560-0673,

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Phone (301) 725-4229. (Swp)

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HD Power Supply

250 & 130 Antenna Tuner

HYGAIN 110 V Rotor Up

Explorer 4 Triband Beam

Antenna EX 14

2GAT ICOM MEM 140

100 Carol Regular duty 8-wire Rotor.c

100 Columbia Superflex Foam

Two pairs ski (adults); Plastic boat-new.

Beatriz - KA3JZH (301) 384-2493, Silver

Spring, Maryland (03)

**WANTED:** Rohn 45G or any larger commercial guyed or self-supporting tower. I will take down and remove. Contact Dave - N3EJT

(301) 474-7405, College Park, MD (12)

The **AMATEUR RADIO NEWS SERVICE** is an organization of publishers and editors of Amateur Radio newsletters and members engaged in public relations. Its purpose is to assist editors in any way possible. For information, write to Lee Knirko - W9MOL, 833 Park Plaine, Parke Ridge, IL 600678

(Swp)



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YOUR VHF COMPANION (\$8) 1-9 \$7.30; 10-up \$6.80

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### Dayton Hamvention Rides Available

Can take 1 to 3. Leave early a.m. April 23, back evening of April 25. Also

**FOR SALE:** Complete portable VCR, camera, tripod, 14-day programmer . . . . . \$395

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Jim - W6NRJ (301) 977-8583 evenings. (301)

977-8583 evenings. Darnestown, MD (03)

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See Page 62

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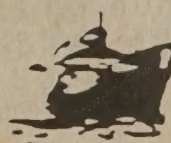
**WANTED:** Service Manual for Drake TR7 Ed WA3TOL Phone (703) 425-6997 (h) (703) 557-8464 (w), Burke, Virginia (03)



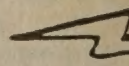
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	1 Adams County Dept of State IBM	2 Antietam PG Wireless	3 BARC MARC	4 Metrovision Anne Arundel Voice America	5 Mobileers Shennandoah	6 Green Mtn Stafford
7	8 Carroll Cnty PVRC	9 Frederick ARC Fauquier Woodbridge	10 Pentagon S.Patuxent --- FAR ---	11 AMRAD MADRAS Mt. Vernon No. Virginia	12 Alexandria So. Maryland Vienna	13 Stafford NCAC Meeting
14 MetroCom	15 Ole VA Hams Sterling Park	16 Antietam Arlington	17 BARC Goddard MARC QCWA #137)	18 Anne Arundel QCWA #20	19 Rock Creek Shennandoah	20 Capital City Stafford QCWA #91
21	22	23 Columbia	24 Laurel	25 MADRAS St. Marys	26 Central MD Vienna	27 Stafford WAYLARC
28 (Adventists) Last	29	30 Columbia	31 QCWA #20			

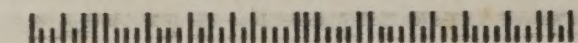
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